Panasonic

Digital Cordless Answering System

Model No. **KX-TCD970E-B**
KX-TCD960E-B

Operating Instructions

KX-TCD970E-B

KX-TCD960E-B

PLEASE READ BEFORE USE AND SAVE.

Charge the battery for about 3 hours before initial use.

This equipment is not designed for making emergency telephony calls when the power fails. Alternative arrangements should be made for access to emergency services.

Important Information

APPROVED for connection to telecommunication systems specified in the instructions for use subject to the conditions set out in them.

KX-TCD970E-B: 608759
KX-TCD960E-B: 608760

Do not connect the AC adaptor to any AC outlet other than the standard AC 230–240 V, 50 Hz.

- Output voltage DC1 8 V, 500 mA
  Output voltage DC2 9 V, 200 mA
- The apparatus is approved for use with the KX-TCA11E power supply.
- CAUTION: Do not remove cover. Live parts inside.

This apparatus has been approved for the use of the following facilities:
1) Storage of telephone numbers for retrieval by a predetermined code
2) Last number redial
3) Simple telephone facility
4) PBX earth register recall
   PBX timed break register recall
5) MF signalling
6) LD signalling
7) Pause
8) 1 way paging
9) Call prohibition
10) Call restriction
11) Direct call
12) Intercom between handsets
13) Transferring a call from one handset to another
14) Conference
15) Setting the call waiting tone
16) Accessing the base unit
17) Answering & Recording Machine
18) Recording and playback of ICM

19) DTMF tone remote control system
20) Memo recording feature
21) Monitoring a telephone call
22) LCD call-counter: to indicate received messages
23) Vox facility: detection of caller's hanging up
24) Selecting the number of rings 1–7/AUTO
25) Auto disconnect
26) Total recording time (including the greeting message) is about 15 minutes
27) Security code for remote operation
28) Keypad dialling, use as integrated telephone (KX-TCD970E-B only)
29) Full handsfree operation (KX-TCD970E-B only)

Any other usage will invalidate the approval of the apparatus if as a result, it then ceases to conform to the standards against which approval was granted.

Ringer Equivalence Number (REN):
This relates to the performance of the apparatus when used in combination with other items of apparatus. It enables the calculation of the maximum number of items of apparatus that may be connected simultaneously to the line by summing the REN values of each item. A BT supplied instrument has a REN value of 1 unless otherwise marked.

A maximum REN value of 4 should not be exceeded. The REN value of this apparatus is 1.

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Method of connection

This is connected to the exchange line or PABX/PMBX (Private Automatic/Manual Branch Exchange) extension by the new standard British Telecom plug and socket. Arrangements for provision of this type of termination can be made through the nearest British Telecom Sales Office. The apparatus may be connected to the following types of installation. The apparatus has been approved for use under the following conditions:

a) This apparatus may be used on telecommunication systems employing LD and MF signalling. It is suitable for connection to a direct exchange line on the PSTN (Public Switched Telephone Network) or via a compatible PBX (Private Branch Exchange). (Contact the supplier for an up to date list of compatible PBX's.)

b) This apparatus is not suitable as an extension to a payphone or for use on a party line with shared service.

This cordless telephone has been designed to operate on radio frequencies which have been assigned to the exclusive use of cordless telephones. As the use of cordless telephones becomes more widespread users may experience a reduction in the quality of service obtainable from this apparatus.

999 or 112 can be dialled on the apparatus for the purposes of making outgoing calls to the BT Emergency (999 or 112) Service.

WARNING:

The apparatus may be unable to make emergency 999 or 112 telephone calls, under certain conditions, e.g.

• Radio interference caused by another cordless telephone operating on the same radio frequency.

• The portable handset battery needs recharging, or has failed.

• The portable handset cannot be used while charging.

Any cases of difficulty should be referred in the first instance to the supplier of the apparatus.

NOTE:

If you experience any problems with the normal use of your apparatus, you should unplug it from the telephone outlet and connect a known working telephone in its place. If the known working telephone still gives problems, then please contact the customer service department of your PSTN operator. If it operates properly, then the problem is likely to be a fault in your apparatus. In this case, contact your supplier for advice. Your PSTN operator may charge you if they attend a service call that is not due to apparatus supplied by them.
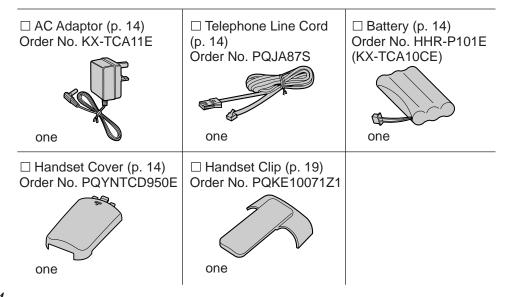
Before Initial Use

Thank you for purchasing your new Panasonic digital cordless telephone.

For your future reference

Serial No. _____   Date of purchase _____

(found on the bottom of the unit)

Name and address of dealer _____

Included with this unit

□ AC Adaptor (p. 14) Order No. KX-TCA11E	□ Telephone Line Cord (p. 14) Order No. PQJA87S	□ Battery (p. 14) Order No. HHR-P101E (KX-TCA10CE)
one	one	one
□ Handset Cover (p. 14) Order No. PQYNTCD950E	□ Handset Clip (p. 19) Order No. PQKE10071Z1	
one	one	

For Best Performance

Battery Charge

A rechargeable Nickel-Metal Hydride
(Ni-MH) battery powers the handset.
Install the battery (p. 14) and charge it for
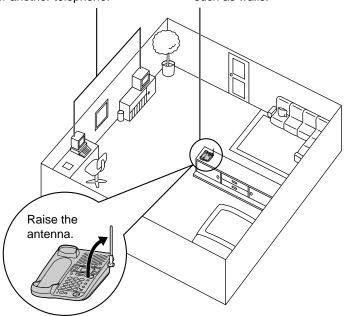**about 3 hours** before initial use (p. 16).

Operating Distance/Noise Elimination

Calls are transmitted between the base unit and the handset using wireless
radio waves. **For maximum distance and noise free operation,** the
recommended base unit location is:

Away from electrical appliances
such as a TV, radio, personal
computer, or another telephone.

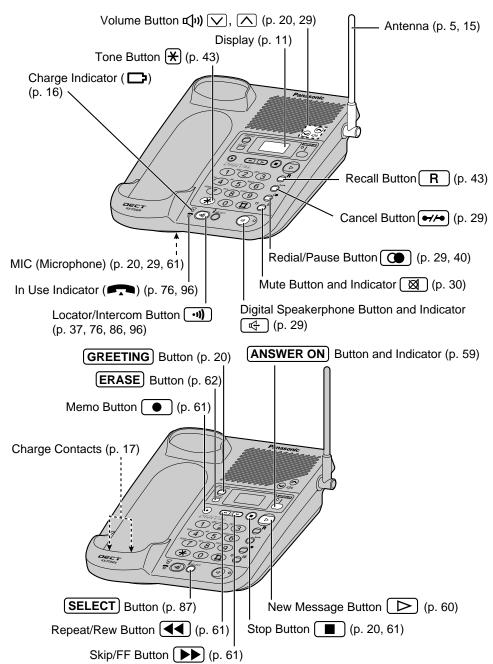In a HIGH and CENTRAL
location with no obstructions
such as walls.

Raise the
antenna.

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Tone Button $\boxed{*}$ (p. 43)

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(p. 16)

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KX-TCD960E-B Base unit

ANSWER ON Button and Indicator (p. 59)

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SELECT Button (p. 87)

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• The illustrations used in this manual are the KX-TCD970E-B.

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Handset

Display (p. 12)

Redial/Pause Button
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Talk Button (📞) (p. 26)

Program Button
(→❭) (p. 18, 35)

Tone Button (✳) (p. 43)

Recall Button (R) (p. 43)

Intercom Button
(INT') (p. 18, 37)

Cancel Button
(•✗/↩) (p. 26, 35)

Auto Button
(→•) (p. 35)

Power/Ringer Button
(①) (p. 17)

Charge Contacts (p. 17)

10

Displays

➡

Base unit display

$\overset{\cdot}{\varphi}$

The clock needs adjusting (p. 23).

E

Your greeting message was not recorded correctly.
Record it again (p. 20).

P

The unit is in the programming mode for the answering system.

5

The speaker volume level is set to "5". You can select:
• 9 levels (0–8) while using the answering system (p. 20, 60).
• 8 levels (1–8) while using the speakerphone
  – KX-TCD970E-B only (p. 29).

12

12 messages have been recorded.

64

When the number of messages (Ex. 64 messages) flashes rapidly, memory is full. Erase some or all of the messages (p. 62).

– –

The recording time is set to "greeting only" (p. 24).

6

When **SELECT** is pressed to page another handset or answer a page from another handset, the handset number is displayed.

11

➡ **Displays**

Handset display

`Y ꜱ ⌢ ♣ ★ ⇨ ▱ ▰` `8888888888.88`	This display shows all of the possible configurations.
`Y` `▰` `- 1 -`	The handset is in the stand-by mode. The base unit number is displayed (p. 17). You can select displaying either the base unit number, handset number or no display by programming (p. 80).
`Y` `⌢` `▰` `01-30-40`	The display shows the length of the call during a conversation. (Ex: 1 hour, 30 minutes, and 40 seconds) You can select displaying either the length of the call or dialled telephone number display by programming (p. 48).
`Y ꜱ` `▰` `[ 1 ]-[ 2 ]`	The paging and paged handset numbers are displayed. (Ex. Handset 1 is paging handset 2.)
`Y ꜱ` `▰` `00-00-03`	The length of the intercom call between the handsets or the base unit is displayed (p. 37, 88).
`Y` `★` `▰` `- 1 -`	When you press ⬛ (Talk), " ★ " is displayed. The call prohibition mode is set to ON (p. 49). To cancel the mode, see page 49.
`Y` `▰` `ͺ4321ͺ`	When dialling, the dialled phone number flashes. The dialled number is a restricted number (p. 50). To cancel the number, see page 51.
`Y` `▰` `ᴏ ᴏ ᴏ ᴏ`	The key lock mode is ON. To cancel the mode, see page 39.

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Symbols

|	
Y	The handset is in range of the base unit. Receiving/dialling/programming functions can be performed.
Y (Flashing)	The handset is out of range. Move closer to the base unit.
(Flashing)	The handset is being paged from another unit.
	The handset is paging another unit and/or the unit is in the intercom mode (p. 37, 86, 88).
	The unit is making or answering a call.
(Flashing)	An outside call is received.
	The unit is in the direct call mode (p. 52).
	The unit is in the call prohibition mode (p. 49).
$\rightarrow\!\!\!>$	The unit is in the programming mode (p. 18, 35).
	The handset is operating the answering system remotely (p. 70).
	The present battery strength is displayed (p. 16).
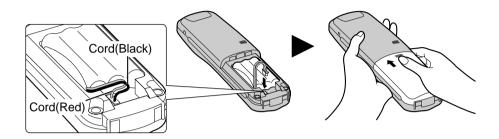
Characters

P	(Redial/Pause) is pressed during dialling or while storing a phone number.
F	(R) (Recall) is pressed when dialling in the TONE mode.
	✳ is pressed when dialling in the TONE mode.
	# is pressed when dialling in the TONE mode.

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Settings

Installing the Battery in the Handset

Install the battery and the battery cord as shown. Then install the handset cover.

Cord(Black)

Cord(Red)

• If the rechargeable battery is not inserted correctly, the handset will not work.

Connections

1 Plug in the AC adaptor cord and the telephone line cord to the bottom of the unit.
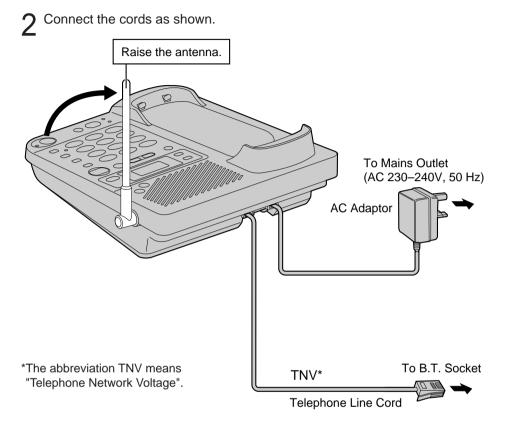
Fasten the cords to prevent them from being disconnected.

Hooks

LINE

AC Adaptor
KX-TCA11E

LINE

8V

Telephone Line Cord

2 Connect the cords as shown.

Raise the antenna.

To Mains Outlet
(AC 230–240V, 50 Hz)

AC Adaptor

*The abbreviation TNV means
"Telephone Network Voltage".

TNV*

To B.T. Socket

Telephone Line Cord

- USE ONLY WITH Panasonic AC ADAPTOR KX-TCA11E.
- Be sure not to confuse the telephone line jack with the AC adaptor jack on the base unit. If connected improperly, the base unit will not work and damage may occur.
- The AC adaptor must remain connected at all times. (It is normal for the adaptor to feel warm during use.)
- To connect a standard telephone on the same line, see page 101.

CONNECTION OF POWER SUPPLY

This apparatus is intended for use when powered by the KX-TCA11E.
Using other power supplies will invalidate any approval given to this apparatus.

Battery Charge

At the time of shipment, the battery is not charged. To charge, place the handset on the base unit. Please charge the battery for at least **3 hours** before initial use.

• Once the handset is placed on the base unit, the charge indicator (⬛) lights.

Charge Indicator (⬛)

Battery strength

You can check the present battery strength on the display.
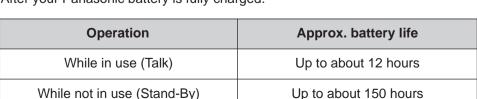The battery strength is as shown in the chart below.

Display prompt	Battery strength
▐▐▐	The battery is fully charged.
▐▐	The battery strength is medium.
▐	The battery strength is low.
▐ (Flashing)	The battery needs to be charged.

Recharge

When " ▐ " flashes or the unit beeps every 15 seconds, recharge the battery.

Battery information

After your Panasonic battery is fully charged:

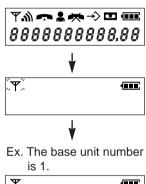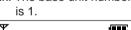| Operation	Approx. battery life
While in use (Talk)	Up to about 12 hours
While not in use (Stand-By)	Up to about 150 hours

• Battery life may vary depending on usage conditions and ambient temperature.
• **Clean the handset and the base unit charge contacts with a soft dry cloth once a month. Clean more often if the unit is subject to grease, dust or high humidity.** If not, the battery may not charge properly.
• If the battery is fully charged, you do not have to place the handset on the base unit until " ▭ " flashes. This will maximise the battery life.
• The battery cannot be overcharged.
• See "Important Notice Concerning the Correct Use and Charging of a Ni-MH Battery" on page 109.

Turning the Power ON

Press ⟨ ① ⟩ (Power/Ringer) briefly.

• The current connected base unit number is displayed.
• You can select displaying either the base unit number, handset number or no display by programming (p. 80).
• The handset is in the stand-by mode.

$$8888888888.88$$

↓

↓

Ex. The base unit number is 1.

To turn the power OFF

Press ⟨ ① ⟩ (Power/Ringer) firmly.

• The display will go blank.
• The handset will not ring.
• Depending on the programming mode, you cannot turn the power off. Make sure that the handset is in the stand-by mode first.

Power/Ringer Button ⟨ ① ⟩

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Selecting the Dialling Mode

You can program the dialling mode **by using the handset near the base unit.**
If you have touch tone service, set to TONE. If rotary or pulse service is used,
set to PULSE. The factory preset is 1 (TONE).

Be sure that the power is ON (p. 17) and you are in the stand-by mode.

1 Press ⟶⟩ (Program), then [INT'] (Intercom).
   • " ⟶⟩ " and " ⟩ " are displayed.

   ```
   ⵌⵌ                    ⟶⟩      ▭▭▭
   ```

2 Press [3].

   ```
   ⵌⵌ                    ⟶⟩      ▭▭▭
   3 - - - -
   ```

3 Enter the base unit password.
   • The factory preset of the base unit password is
     0000. If you have changed the base unit
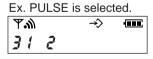   password (p. 47), enter the new password.

   ```
   ⵌⵌ                    ⟶⟩      ▭▭▭
   3
   ```
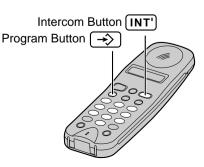
4 Press [1].
   • The current setting is displayed.

   ```
   ⵌⵌ                    ⟶⟩      ▭▭▭
   3 1 1
   ```

5 To select PULSE, press [2].
   OR
   To select TONE, press [1].

   Ex. PULSE is selected.
   ```
   ⵌⵌ                    ⟶⟩      ▭▭▭
   3 1 2
   ```

6 When finished, press ⟶⟩ (Program).
   • A confirmation tone sounds.
   • " ⟶⟩ " and " ⟩ " go out.

   Intercom Button [INT']
   Program Button ⟶⟩

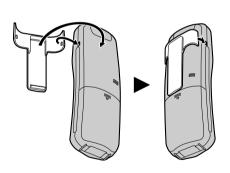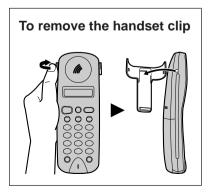• To cancel during programming, press ⟶⟩
  (Program), then start from step 1.

You can determine which type of local BT exchange you are connected to using the following procedure.
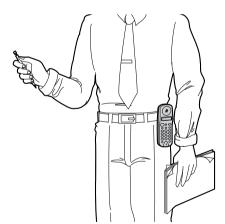
1. Ensure that the dialling mode is set to TONE.

2. Press [📞] (Talk), then identify the dial tone.

3. Dial a number you are familiar with.

4. If the call is successful, you are connected to a tone exchange. Therefore, leave the dialling mode as TONE.

5. If the call is not successful, you are connected to a pulse exchange. Therefore, set the dialling mode to PULSE.

Installing the Handset Clip

If necessary, you can attach the handset clip so you can hang the handset on your belt or pocket.

To remove the handset clip
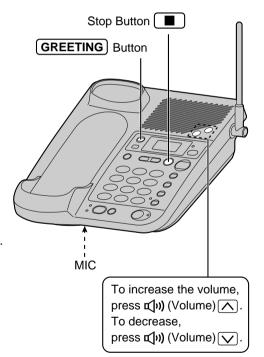
Preparing the Answering System

Greeting Message

You can record a personal greeting message. If not, one of two pre-recorded greetings will be played when a call is received (p. 21).

All messages (greeting, incoming, memo, etc.) are stored in digital memory (p. 60). The **total recording time is about 15 minutes. The greeting recording time is limited to 2 minutes and 30 seconds.** We recommend you record **a brief greeting message** (see the sample below) in order to leave more time for recording new messages.

To record a greeting message

1 Press and hold **GREETING** for about 2 seconds to record your greeting.

• A long beep sounds.

2 After the long beep, talk clearly about 20 cm away from the MIC (microphone).

• The base unit display shows the elapsed recording time.

3 When finished, press ■ (Stop).

• **To check** the recorded greeting, press **GREETING** briefly.
• To change the message, repeat from step 1.

Stop Button ■

GREETING Button

MIC

To increase the volume, press 🔊 (Volume) ∧. To decrease, press 🔊 (Volume) ∨.

Greeting message sample

"Hello, this is (your name and/or number). Sorry I cannot take your call. Please leave a message after the beep. Thank you."

To erase the recorded greeting message

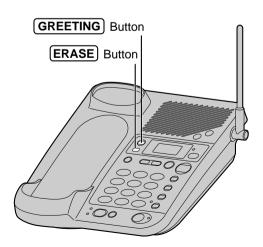Press [**GREETING**] briefly ➡ press [**ERASE**] while the message is being played.

• The unit will answer a call with a pre-recorded greeting.

Pre-recorded greeting message

If you do not record a greeting message (p. 20), one of the following two messages will be played when a call is received depending on the caller's recording time (p. 24).

To check the pre-recorded greeting, press [**GREETING**] briefly.

• A pre-recorded greeting will be played as below.

■ When the recording time is set to "1 minute" or "unlimited";
"Hello, we are not available now. Please leave your name, message and phone number after the beep. We will return your call."

■ When the recording time is set to "greeting only";
"Hello, no one is available to take your call. Please call back later."

[**GREETING**] Button

[**ERASE**] Button

Programming Summary for the Answering System

You can program the following functions **by using the handset near the base unit.** See the noted pages for details.

Be sure that the power is ON (p. 17) and you are in the stand-by mode.

Lift the handset, then press $\boxed{\rightarrow}$ (Program), and then $\boxed{\text{INT'}}$ (Intercom).

↓

Press $\boxed{\square}$.

• " ▬▬ " is displayed on the handset.
• "P" is displayed on the base unit.

> • If " Ⴤ " flashes on the handset display and an alarm tone sounds, move closer to the base unit. Then try again.
> • If " ▬▬ " flashes on the handset display, you cannot program while the base unit speakerphone is in use.

To adjust **the time and day**, press $\boxed{0}$.	(page 23)
To set **the remote code**, press $\boxed{1}$.	(page 64)
To select **the number of rings**, press $\boxed{2}$.	(page 24)
To select **the caller's recording time**, press $\boxed{3}$.	(page 24)
To set **the greeting monitor function**, press $\boxed{4}$.	(page 25)
To set **the VOX SENS function**, press $\boxed{7}$.	(page 25)

• The base unit display shows numbers or characters related to the adjustment or setting.

↓

When finished, press $\boxed{\rightarrow}$ (Program).

• A confirmation tone sounds. *

• To cancel during programming, press $\boxed{\rightarrow}$ (Program), then start from the beginning.
• If 6 beeps sound on the base unit during programming, a wrong key was pressed. Enter the correct number again.

*What the confirmation tone means

1 beep: The new programmed setting or selection is done.
2 beeps: The setting or selection is the same as the previous one.
6 beeps: The setting or selection is not correct. Try again from the beginning.

Time and Day Adjustment

Voice Time/Day Stamp: During playback, a synthesized voice will announce the time and day when each message was recorded.
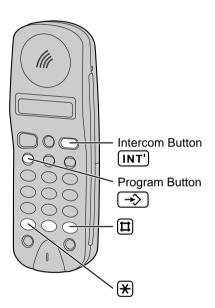
1 Press ⟨→⟩ (Program), then ⟨INT'⟩ (Intercom).

2 Press 🔲.
   • " ▣ " is displayed on the handset.
   • "P" is displayed on the base unit.

3 Press ⟨0⟩.
   • " 🕐 " is displayed on the base unit.
   • "Set time" is announced.
     The time/day will be heard if it was adjusted beforehand.

4 Enter the current time (hour and minute) by using a 4 digit number.
   (Ex. To set 9:30, enter "0930".)
   • The entered number is displayed on the base unit.

5 Press 🔲 to select "AM" or "PM".
   Press ⟨✱⟩ repeatedly to set the day.
   • The unit announces the day.

Intercom Button
⟨INT'⟩

Program Button
⟨→⟩

🔲

⟨✱⟩

6 When finished, press ⟨→⟩ (Program).
   • The unit announces the time/day. The clock starts working.

• In step 4, you cannot enter numbers greater than 12.
  (To set 13:00 hours, enter "0100" and select "PM" by pressing 🔲).

• The accuracy of the clock is approximately ±45 seconds a month at room temperature.

If a power failure occurs, the adjusted time/day may be erased.

To check the time/day

Press ⟨→⟩ (Program) ➡ ⟨INT'⟩ (Intercom) ➡ 🔲 ➡ ⟨0⟩.

• The current time/day is heard. When finished, press ⟨→⟩ (Program).

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Selecting the Caller's Recording Time

You may select the caller's recording time as either "1 minute", "unlimited" or "greeting only". The factory preset is "unlimited".

1. Press 🔄 (Program), then **[INT']** (Intercom).

2. Press [口].

   • "🔲" is displayed on the handset.
   • "P" is displayed on the base unit.

3. Press [3].

   • The current setting is displayed on the base unit.
     1: 1 minute   **2**: unlimited (factory preset)   **3**: greeting only

4. Press [1], [2] or [3] to select the recording time.

   • The setting is displayed.

5. When finished, press 🔄 (Program).

   • When you select "greeting only", "--" is displayed on the base unit.

> If you select "greeting only", the unit will answer a call with the greeting message, and then hang up. The unit will not record any messages.

Selecting the Number of Rings

You may select the number of rings before the answering system answers a call, from 1 to 7 or AUTO (for Toll Saver). The factory preset is AUTO.

1. Press 🔄 (Program), then **[INT']** (Intercom).

2. Press [口].

3. Press [2].

   • The current setting is displayed on the base unit.

4. Press a dialling button [0] to [7] to set the number of rings.
   0:   Selects "AUTO". "A" is displayed.
   1–7: The unit will answer after the selected number of rings.

5. When finished, press 🔄 (Program).

Toll Saver (When set to "AUTO")

When you call the unit from a touch tone telephone:
If the unit answers on the 2nd ring, there is at least one new message.
If the unit answers on the 5th ring, there are no new messages.
Hang up when you hear the 3rd ring. This will save you the toll charge for the call.

Setting the VOX SENS Function

The VOX SENS function is preset to 1 (HIGH). If the unit continues to operate after a caller hangs up or there are long pauses between or after messages, set to 2 (LOW).

1. Press $\boxed{\rightarrow}$ (Program), then $\boxed{\text{INT'}}$ (Intercom).

2. Press $\boxed{\boxplus}$.

3. Press $\boxed{7}$.

   • The current setting, "1" or "2", is displayed on the base unit.

4. To set to LOW, press $\boxed{2}$.
   OR
   To set to HIGH, press $\boxed{1}$.

   • The setting is displayed.

5. When finished, press $\boxed{\rightarrow}$ (Program).

Setting the Greeting Monitor Function

When your greeting message is being played to the caller, you can also listen to it through the speaker. To listen to your greeting, set to 2 (ON).
The factory preset is 1 (OFF).
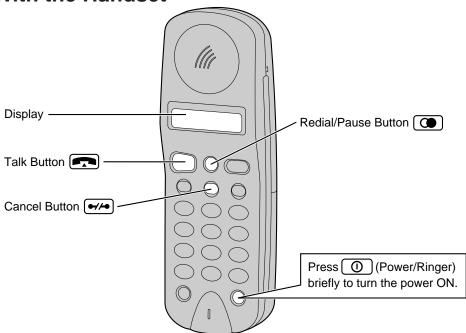
1. Press $\boxed{\rightarrow}$ (Program), then $\boxed{\text{INT'}}$ (Intercom).

2. Press $\boxed{\boxplus}$.

3. Press $\boxed{4}$.

   • The current setting, "1" or "2", is displayed on the base unit.

4. To set to 2 (ON), press $\boxed{2}$.
   OR
   To set to 1 (OFF), press $\boxed{1}$.

   • The setting is displayed.

5. When finished, press $\boxed{\rightarrow}$ (Program).

Making Calls

With the Handset

Display ——————————

Redial/Pause Button ⬤

Talk Button 📞

Cancel Button ↵

Press ⓪ (Power/Ringer) briefly to turn the power ON.

1 Press 📞 (Talk).
 • " 📞 " is displayed.

```
Ψ   📞           ▥
```

2 Dial a phone number.
 • If you misdial, press ↵ (Cancel) then dial again.
 • The dialled number is displayed.
 • The display starts showing the length of the call about 7 seconds after dialling the last digit (p. 48).

```
Ψ   📞           ▥
        12345678
```

Ex. The length of the call is displayed.

```
Ψ   📞           ▥
        00-01-23
```

3 To hang up, press 📞 (Talk) or place the handset on the base unit.

 • " 📞 " goes out.
 • The length of the call will remain on the display for about 5 seconds.

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To dial after confirming the entered number

1 Enter a phone number.

    Υ 🔲
    12345678
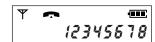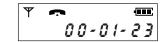
• If you misdial while dialling a number;
To erase one digit, press [⇌] (Cancel)
briefly.
To erase all of the digits, press [⇌] (Cancel)
firmly.
Then you can dial the correct number.

2 Press [☎] (Talk).

    Υ ☎   🔲
    12345678

• " ☎ " is displayed.
• The display starts showing the length of the
call about 7 seconds after dialling the last digit
(p. 48).

    Υ ☎   🔲
    00-01-23

• If " Υ " flashes and an alarm tone sounds after pressing [☎] to make a call,
move closer to the base unit. Then try again.
• If busy tones sound after pressing [☎] to make a call, the base unit
speakerphone (KX-TCD970E-B only) or another handset (p. 76) is in use.

To redial the last number dialled on the handset

Press [☎] (Talk), then press [⏺] (Redial/Pause).

• The last number dialled is redialled automatically.
• Each time a different number is dialled, it overwrites the previous entered
number.

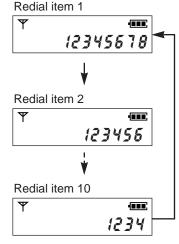Chapter 2 Cordless Telephone (Basic Operations)

➡ **Making Calls**

To redial after confirming the numbers in redial memory

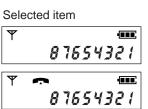The unit automatically stores the last 10 numbers dialled into redial memory.

1 Press $\boxed{\text{CO}}$ (Redial/Pause) to select the desired phone number.
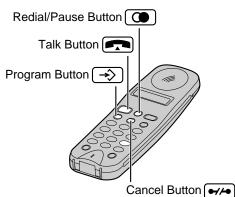
You can scroll through the numbers by pressing $\boxed{\text{CO}}$ (Redial/Pause).

- To return to the stand-by mode, press $\boxed{\bullet/\bullet}$ (Cancel) firmly.

Redial item 1

```
Ψ                    ▭▭▭
              12345678
```

↓

Redial item 2

```
Ψ                    ▭▭▭
                123456
```

↓

Redial item 10

```
Ψ                    ▭▭▭
                  1234
```

2 After confirming the number on the display, press $\boxed{\frown}$ (Talk).

- The unit automatically dials the phone number.

Selected item

```
Ψ                    ▭▭▭
              87654321
```

```
Ψ    ☎               ▭▭▭
              87654321
```

To clear all numbers in the redial memory, press $\boxed{\rightarrow}$ (Program). Then press $\boxed{9}$ and $\boxed{\rightarrow}$ (Program).

Redial/Pause Button $\boxed{\text{CO}}$

Talk Button $\boxed{\frown}$

Program Button $\boxed{\rightarrow}$

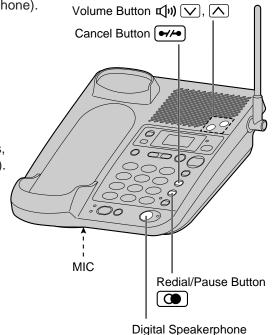Cancel Button $\boxed{\bullet/\bullet}$

With the Base Unit (KX-TCD970E-B only)

(Digital Speakerphone)

1 Press $\boxed{⊄}$ (Digital speakerphone).

   • The indicator lights.

2 Dial a phone number.

   • If you misdial, press $\boxed{●/●}$ (Cancel) then dial again.

3 When the other party answers, talk into the MIC (microphone).

4 To hang up, press $\boxed{⊄}$ (Digital speakerphone).

   • The indicator light goes out.

Volume Button $◁))$ $\boxed{\vee}$, $\boxed{\wedge}$

Cancel Button $\boxed{●/●}$

MIC

Redial/Pause Button $\boxed{●}$

Digital Speakerphone Button and Indicator $\boxed{⊄}$

• The base unit speakerphone cannot be used while a handset is in use. Wait until the in use indicator ($◖$) goes out.

To adjust the speaker volume (8 levels)

To increase, press $◁))$ (Volume) $\boxed{\wedge}$. To decrease, press $◁))$ (Volume) $\boxed{\vee}$.

To redial the last number dialled on the base unit

Press $\boxed{⊄}$ (Digital speakerphone) ➡ $\boxed{●}$ (Redial/Pause).

Hands-Free Digital Speakerphone

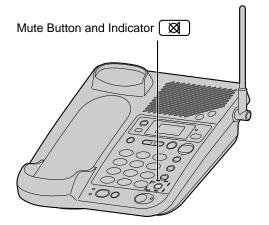The digital speakerphone enhances your telephone conversation.

For best performance, please note the following.

• Use the speakerphone in a quiet room.

• Talk alternately with the caller.

• If the caller complains that your voice is hard to hear, press 🔊 (Volume) ▽ to decrease the speaker volume.

• If the other party's voice from the speaker cuts in/out during a conversation, press 🔊 (Volume) ▽ to decrease the speaker volume.

Muting your conversation (KX-TCD970E-B only)

Press ⊠ (Mute) while talking.

• The mute indicator (⊠) lights.

• The other party cannot hear your voice but you can hear theirs.

• To resume the conversation, press ⊠ (Mute) again.

Mute Button and Indicator ⊠

Answering Calls

With the Handset

Make sure that the power is ON (p. 17), or the handset will not ring.

1   If the handset is off the base unit, press 📞 (Talk).

   • The display starts showing the length of the call.

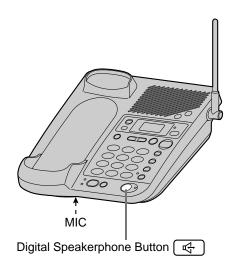   Talk Button 📞

   OR

   If on the base unit, just lift up.

2   To hang up, press 📞 (Talk) or place the handset on the base unit.

   • The length of the call remains on the display for about 5 seconds.

With the Base Unit

1   Press 📢 (Digital speakerphone).

2   Talk into the MIC.

3   To hang up, press 📢 (Digital speakerphone).

MIC

Digital Speakerphone Button 📢

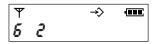Cordless Telephone (Basic Operations)

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Setting the Receiver Volume

You can program the handset receiver volume (3 levels) according to your needs. The lowest setting is 1 and the highest setting is 3. The factory preset is 2.

1 Press [→⟩] (Program).

• " →⟩ " is displayed.
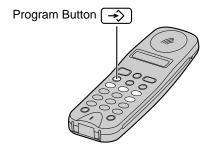
2 Press [6].

• The current handset receiver volume is displayed.

3 Press a button [1] to [3] to select the receiver volume.

Ex. 3 is selected.

• The selected receiver volume is displayed.

4 When finished, press [→⟩] (Program).

Program Button [→⟩]

• A confirmation tone sounds.
• " →⟩ " goes out.

• You can perform this programming during a conversation.
In step 4, a confirmation tone will not sound while in the talk mode.

Setting the Ringer Volume

On the handset

You can program the handset ringer volume (6 levels) according to your needs. The lowest setting is 1 and the highest setting is 6. The factory preset is 3.
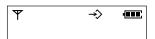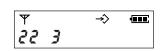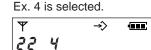
1 Press $\rightarrow\!\!\!>$ (Program).

| ⟑ | $\rightarrow\!\!\!>$ | ▐▀▀▀▌ |

2 Press **2** twice.

- The current handset ringer volume is displayed and rings.

| ⟑ | $\rightarrow\!\!\!>$ | ▐▀▀▀▌ |
| 22 3 | | |

3 Press a button **1** to **6** to select the ringer volume.

- The selected ringer volume is displayed and rings.

Ex. 4 is selected.

| ⟑ | $\rightarrow\!\!\!>$ | ▐▀▀▀▌ |
| 22 4 | | |

4 When finished, press $\rightarrow\!\!\!>$ (Program).

- A confirmation tone sounds.

On the base unit
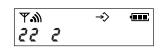
You can program the base unit ringer volume (3 levels) according to your needs. The lowest setting is 1 and the highest setting is 3. The factory preset is 2.

1 Press $\rightarrow\!\!\!>$ (Program), then **INT'** (Intercom).

- " $\rightarrow\!\!\!>$ "and " ⟑⟑ " are displayed.

| ⟑⟑ | $\rightarrow\!\!\!>$ | ▐▀▀▀▌ |
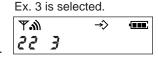
2 Press **2** twice.

- The current base unit ringer volume is displayed.

| ⟑⟑ | $\rightarrow\!\!\!>$ | ▐▀▀▀▌ |
| 22 2 | | |

3 Press a button **1** to **3** to select the ringer volume.

- The selected ringer volume is displayed and rings.

Ex. 3 is selected.

| ⟑⟑ | $\rightarrow\!\!\!>$ | ▐▀▀▀▌ |
| 22 3 | | |
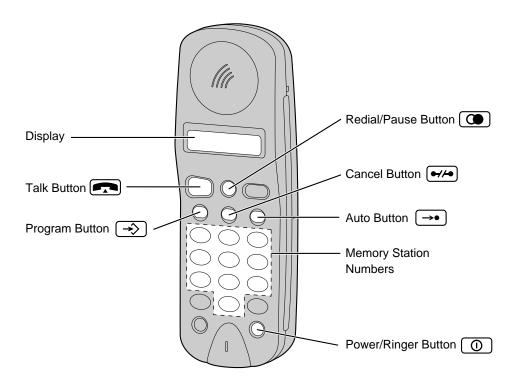
4 When finished, press $\rightarrow\!\!\!>$ (Program).

- " $\rightarrow\!\!\!>$ "and " ⟑⟑ " go out.
- A confirmation tone sounds.

Automatic Dialling

Storing Phone Numbers in Memory

You can store up to 10 phone numbers in the handset.
The dialling buttons (**0** to **9**) function as memory stations.

Be sure that the power is ON (p. 17) and you are in the stand-by mode.

Display

Talk Button

Program Button

Redial/Pause Button

Cancel Button

Auto Button

Memory Station
Numbers

Power/Ringer Button

Memory sticker

Use the included memory sticker as a name
or phone number index for automatic
dialling. Attach the sticker to the unit or in a
convenient place.

☎	
1	6
2	7
3	8
4	9
5	0

1 Press →〉 (Program).

• " →〉 " is displayed.

| ⛌ | →〉 | ▭▭▭ |

2 Press →• (Auto).

3 Press a memory station number (0 to 9).

• The current stored number is displayed.

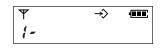| ⛌ | →〉 | ▭▭▭ |
| 1- | | |

4 Enter a phone number up to 24 digits.

• The entered number is displayed.
• If you misdial while dialling a number;
To erase one digit, press •⁄• (Cancel)
briefly.
To erase all of the digits, press •⁄• (Cancel)
firmly.

| ⛌ | →〉 | ▭▭▭ |
| 1- | | 12345 |

5 When finished, press →〉 (Program).

• A confirmation tone sounds.
• " →〉 " goes out and the number is stored in
the memory station.

| ⛌ | | ▭▭▭ |
| - 1- | | |

• If a pause is required for dialling, ⟲ (Redial/Pause) can be stored in a
phone number counting as one digit (p. 40).

To erase a stored number

1. Press →〉 (Program).
2. Press →• (Auto).
3. Press the memory station number (0 to 9) for the phone number to be
erased.
4. Press •⁄• (Cancel).
5. When finished, press →〉 (Program).

Chapter 2 Cordless Telephone (Basic Operations)

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Dialling a Stored Number

1 Press ▲ (Talk).

```
 ⅄   ☎                    ▥
```

2 Press →• (Auto).

3 Press the memory station number (**0** to **9**).
  • The stored number is dialled.

```
 ⅄   ☎                    ▥
                   1234567
```

To dial after confirming the phone number

1 Press →• (Auto).

```
 ⅄                         ▥
```

2 Press the memory station number (**0** to **9**).
  OR
  Press →• (Auto) repeatedly to find the
  number you want to dial.

  • To return to the stand-by mode, press
    ↩/↪ (Cancel) firmly.

```
 ⅄                         ▥
                   1234567
```
OR
```
 ⅄                         ▥
 1-                1234567
```
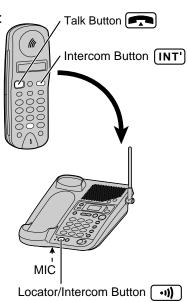
3 Press ▲ (Talk).
  • The stored number is dialled.

```
 ⅄   ☎                    ▥
                   1234567
```

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Intercom ➡

A 2-way intercom is available between the handset and the base unit.

Paging the base unit from the handset

1 Handset:
Press [INT'] (Intercom), then [0].

  • " 📶 " is displayed and the base unit rings.
  • To stop paging, press 🔳 (Talk) again.

Intercom Button [INT']

2 Base unit:
Press [·)] (Locator/Intercom) to answer.

3 Base unit:
Talk into the MIC.

4 Handset or base unit:
To end the intercom, press 🔳 (Talk) or [·)] (Locator/Intercom).

MIC

Locator/Intercom Button [·)]
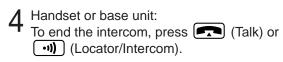
Paging the handset from the base unit (Handset locator)

Using this feature, you can locate the handset, if misplaced.

1 Base unit:
Press [·)] (Locator/Intercom).

  • The handset rings for 1 minute and " 📶 " flashes.
  • To stop paging, press [·)] (Locator/Intercom) again.

2 Handset:
Press 🔳 (Talk) to answer.

MIC

Locator/Intercom Button [·)]

3 Base unit:
Talk into the MIC.

Talk Button 🔳

4 Handset or base unit:
To end the intercom, press 🔳 (Talk) or [·)] (Locator/Intercom).

During the intercom:

- If two tones sound, an incoming call has been received. To answer, press
  [☎] (Talk) twice or [•))] (Locator/Intercom) and [⊄] (Digital
  speakerphone) (KX-TCD970E-B only). The intercom is ended.

Transferring a Call Using the Intercom (KX-TCD970E-B only)

The intercom can be used during a call. This feature enables you to transfer a
call between the handset and the base unit.

From the handset to the base unit

1 Handset:
  During a call, press [INT']
  (Intercom) then [0].

  - The call is put on hold and " ꙮ "
    is displayed.
  - If the base unit user does not
    answer, press [INT'] (Intercom).

2 Base unit:
  Press [•))] (Locator/Intercom)
  to answer the page.

3 Transferring a call:
  Handset:
  Press [☎] (Talk).

  - The transfer is completed.
    The base unit user can answer
    the call.
  OR
  Ending the intercom:
  Handset:
  Press [INT'] (Intercom).

  - The handset returns to the call.

From the base unit to the handset

1 Base unit:
  During a call, press [•))]
  (Locator/Intercom).

  - The call is put on hold.
  - If the handset user does not
    answer, press [•))]
    (Locator/Intercom).

2 Handset:
  Press [☎] (Talk) to answer the
  page.

3 Transferring a call:
  Base unit:
  Press [•))] (Locator/Intercom).

  - The transfer is completed.
    The handset user can answer
    the call.
  OR
  Ending the intercom:
  Base unit:
  Press [⊄]
  (Digital speakerphone).

  - The base unit returns to the call.

Special Features ➡

Setting the Key Lock

You can lock the handset dialling buttons. Incoming calls can be answered, but outgoing calls can not be dialled until the key lock is cancelled.

When the unit is in the stand-by mode,
press ⟶⟩ (Program) for about 2 seconds.

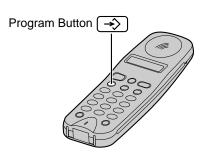• "ロロロロ" is displayed.

• If you press ☎ (Talk) to answer a call, all of the dialling buttons will unlock and "ロロロロ" goes out. When you press ☎ (Talk) to hang up, the buttons will lock and "ロロロロ" will be displayed again.

Cancelling the key lock

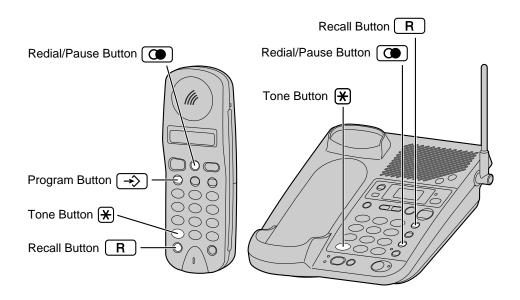Press ⟶⟩ (Program) again for about 2 seconds.

• "ロロロロ" goes out.

• When the power is OFF, the key lock is cancelled.

Program Button ⟶⟩

Recall Button ⌈ R ⌉

Redial/Pause Button ⌈ ⊙ ⌉   Redial/Pause Button ⌈ ⊙ ⌉

Tone Button ⌈*⌉

Program Button ⌈→⟩⌉

Tone Button ⌈*⌉

Recall Button ⌈ R ⌉

How to Use the Pause Button
(For Analogue PBX Line/Long Distance Service Users)

We recommend you press ⌈ ⊙ ⌉ (Redial/Pause) if a pause is required for dialling with a PBX or to access a long distance service.

Ex: Line access number ⌈9⌉ (PBX)

⌈9⌉ ➡ ⌈ ⊙ ⌉ (Redial/Pause) ➡ ⌈ Phone number ⌉

- Pressing ⌈ ⊙ ⌉ (Redial/Pause) once creates a pause.
  This prevents misdialling when you redial or dial a stored number.
- Pressing ⌈ ⊙ ⌉ (Redial/Pause) more than once increases the length of the pause between numbers.

Setting the pause timing

You can select the pause timing, 3 seconds or 5 seconds, according to your PBX requirements. The factory preset is 1 (3 seconds).

1 Press $\boxed{\rightarrow}$ (Program), then $\boxed{\text{INT'}}$ (Intercom).

```
Y𝖆𝔩              ⇾      ▱▱▱
```

2 Press $\boxed{3}$.

```
Y𝖆𝔩              ⇾      ▱▱▱
3  ‑ ‑ ‑ ‑
```

3 Enter the base unit password (p. 47).

```
Y𝖆𝔩              ⇾      ▱▱▱
3
```

4 Press $\boxed{3}$.
  • The current pause timing is displayed.

```
Y𝖆𝔩              ⇾      ▱▱▱
33   1
```

5 To select 5 seconds, press $\boxed{2}$.
  OR
  To select 3 seconds, press $\boxed{1}$.

  • The setting is displayed.

Ex. 5 seconds is selected.

```
Y𝖆𝔩              ⇾      ▱▱▱
33   2
```

6 When finished, press $\boxed{\rightarrow}$ (Program).
  • A confirmation tone sounds.

Special Features

Setting the Time Break Recall/EARTH mode

If your unit is installed behind a PBX with an earth function, you must select the earth mode. The factory preset is 1 (Time Break Recall).

1 Press (→) (Program), then [INT'] (Intercom).

```
Y ll          →)    ▭
```

2 Press [3].

```
Y ll          →)    ▭
3  - - - -
```

3 Enter the base unit password (p. 47).

```
Y ll          →)    ▭
3
```

4 Press [2].
  • The current setting is displayed.

```
Y ll          →)    ▭
32  1
```
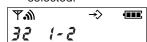
5 To select "EARTH", press [2].
  OR
  To select "Time Break Recall", press [1], then [2].

Ex. EARTH is selected.
```
Y ll          →)    ▭
32  2
```
OR

Ex. Time Break Recall is selected.
```
Y ll          →)    ▭
32  1-2
```

6 When finished, press (→) (Program).
  • A confirmation tone sounds.

Temporary Tone Dialling

(For Rotary or Pulse Service Users)

Before dialling access numbers which require tone dialling, you must press the following buttons.

On the handset

1. Press $\boxed{\rightarrow\!\!\!>}$ (Program).

2. Press $\boxed{\ast}$ (Tone).

3. Press $\boxed{\rightarrow\!\!\!>}$ (Program).

On the base unit (KX-TCD970E-B only)

Press $\boxed{\ast}$ (Tone) before entering access numbers which require tone dialling.

• The dialling mode changes to tone. You can enter numbers to access an answering system, electronic banking service, etc. When you hang up, the mode will return to pulse.

Using the Recall Feature

$\boxed{R}$ (Recall) is used to access special telephone services (optional) such as call waiting. Contact your telephone company business office for details.

Example: British Telecom call waiting

When a call waiting tone is heard during a conversation:

a) **To hold the existing call and accept the waiting call**
   Press $\boxed{R}$ (Recall).
   • Each time you press $\boxed{R}$ (Recall), you can switch between the first and second call.

b) **To accept the waiting call and hang up the existing call**
   Press $\boxed{}$ (Talk) or $\boxed{\Diamond}$ (Digital speakerphone). When the unit rings,
   press $\boxed{}$ (Talk) or $\boxed{\Diamond}$ (Digital speakerphone) to answer the new call.

c) **To reject the waiting call**
   Wait for the call waiting to time out. This will take about 40 seconds.

If your unit is connected to a PBX, pressing $\boxed{R}$ (Recall) allows you to access some features of your host PBX such as transferring an extension call.

Summary of Programming Features

This unit has base unit programming and handset programming modes.

The base unit program mode has the following functions.

Be sure that the power is ON (p. 17), you are in the stand-by mode, and the handset near the base unit. See the noted pages for details.

- **To set the Dialling Mode**, see page 18.
- **To set the Base Unit Ringer Volume**, see page 33.
- **To set the Pause Timing**, see page 41.
- **To set the Time Break Recall/EARTH Mode**, see page 42.
- **To change the Base Unit Password**, see page 46.
- **To set the Call Restriction**, see page 50.
- **To set the Base Unit Ringer Pattern**, see page 54.
- **To set the Base Unit Key Tones**, see page 55.
- **To clear the Settings in Base Unit Memory**, see page 58.
- **To cancel a Handset**, see page 78.
- **To select "Cyclic"**, see page 82.
- **To select the Handset(s)**, see page 83.
- **To select the First Handset**, see page 84.
- **To select All Handsets**, see page 85.

The handset program mode has the following functions.

Be sure that the power is ON (p. 17), you are in the stand-by mode, and the handset near the base unit. See the noted pages for details.

- **To clear Redial Memory**, see page 28.
- **To set the Receiver Volume**, see page 32.
- **To set the Handset Ringer Volume**, see page 33.
- **To change the Handset Password**, see page 46.
- **To select the Talk Mode Display**, see page 48.
- **To set the Call Prohibition**, see page 49.
- **To set the Direct Call Mode**, see page 52.
- **To set the Handset Ringer Pattern**, see page 54.
- **To set the Handset Key Tones**, see page 55.
- **To set the Range Warning Alarm**, see page 56.
- **To set the Battery Low Alarm**, see page 56.
- **To clear the Settings in Handset Memory**, see page 57.
- **To register a Handset in the Base Unit**, see page 76.
- **To cancel a Base Unit**, see page 79.
- **To select the Stand-by Mode Display**, see page 80.
- **To set the Call Waiting Tone**, see page 91.
- **To set the Base Unit Access**, see page 99.

Helpful hints for programming
- To cancel during programming, press $\rightarrow$ (Program), then start from the beginning.
- If 5 beeps sound during programming, a wrong key was pressed. Enter the correct number again.
- To return to the previous step during programming halfway, press ●/● (Cancel).

Chapter 3 Cordless Telephone (Advanced Operations)

Setting the Password

On the handset

You can program the password according to your needs. The factory preset is 0000. Changing the password may prevent the unauthorised use of your unit by another person.
You need to enter this password when using the following features.

- Setting the Call Prohibition (p. 49)
- Clearing the Settings in Handset Memory (p. 57)
- Cancelling a Base Unit (p. 79)

Once you have programmed the password, you cannot confirm it.
We recommend you write down the password. If you forget it, please consult with your nearest Panasonic Service Center.

1 Press 〔 →〉 〕 (Program).

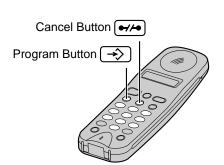- " →〉 " is displayed.

2 Press 〔5〕.

3 Enter the current handset password.

4 Enter the new password using a 4 digit number **twice**.

- If you misdial, press 〔•/•〕 (Cancel) and enter the number twice again.
- A confirmation tone sounds.
- " →〉 " goes out and the handset password is stored.

Cancel Button 〔•/•〕

Program Button 〔 →〉 〕

On the base unit

You can program the password according to your needs. The factory preset is 0000. Changing the password may prevent the unauthorised use of your unit by another person.

You need to enter this password when using the following features.

- Setting the Dialling Mode (p. 18)
- Setting the Pause Timing (p. 41)
- Setting the Time Break Recall/ EARTH Mode (p. 42)
- Setting the Call Restriction (p. 50)
- Clearing the Settings in Base Unit Memory (p. 58)

- Registering a Handset in the Base Unit (p. 76)
- Selecting "Cyclic" (p. 82)
- Selecting the Handset(s) (p. 83)
- Selecting the First Handset (p. 84)
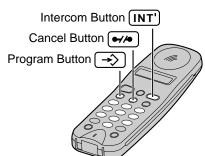- Selecting All Handsets (p. 85)

Once you have programmed the password, you cannot confirm it.
We recommend you write down the password. If you forget it, please consult with your nearest Panasonic Service Center.

1 Press (→→) (Program), then [INT'] (Intercom).
   • "→→" and " ⚬⚬ " are displayed.

   | Y⚬⚬ | →→ | ☰☰☰ |

2 Press [5].

   | Y⚬⚬ | →→ | ☰☰☰ |
   | 5 ⁻ ⁻ ⁻ ⁻ | | |

3 Enter the current base unit password.

   | Y⚬⚬ | →→ | ☰☰☰ |
   | 5 ⁻ ⁻ ⁻ ⁻ ⁻ ⁻ ⁻ ⁻ | | |

4 Enter the new password using a 4 digit number **twice**.

   • If you misdial, press [•/•] (Cancel) and enter the number twice again.
   • A confirmation tone sounds.
   • "→→" and " ⚬⚬ " go out and the base unit password is stored.

   Intercom Button [INT']
   Cancel Button [•/•]
   Program Button (→→)
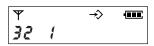
Selecting the Talk Mode Display

You can select displaying either the length of the call or the dialled telephone number while in the talk mode.
The factory preset is 1 (length of the call).

1 Press $\boxed{\rightarrow\!\!\!\!\!\diagup}$ (Program).

2 Press $\boxed{3}$, then $\boxed{2}$.
  • The current setting is displayed.

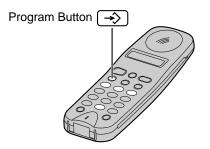3 To select "dialled telephone number display", press $\boxed{0}$.
  OR
  To select "length of the call", press $\boxed{1}$.
  • The setting is displayed.

Ex. "Dialled telephone number" is selected.

4 When finished, press $\boxed{\rightarrow\!\!\!\!\!\diagup}$ (Program).
  • A confirmation tone sounds.

Program Button $\boxed{\rightarrow\!\!\!\!\!\diagup}$

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Call Prohibition

You can prohibit anyone from making a call with your handset except for emergency calls (999, 112). Only incoming calls are accepted.
The factory preset is 0 (OFF).

Setting the Call Prohibition Mode

1 Press ⟶⟩ (Program).

2 Press **4**, then **1**.

3 Enter the handset password (p. 46).
   • The current setting is displayed.

4 Press **1** (ON).

5 When finished, press ⟶⟩ (Program).
   • A confirmation tone sounds.
   • " ✖ " is displayed.
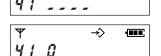   • The unit will switch to the call prohibition mode.

Cancelling the Call Prohibition Mode

1 Press ⟶⟩ (Program).
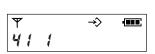
2 Press **4**, then **1**.

3 Enter the handset password (p. 46).
   • The current setting is displayed.

4 Press **0** (OFF).

5 When finished, press ⟶⟩ (Program).
   • A confirmation tone sounds.
   • " ✖ " goes out.
   • The unit will cancel the call prohibition mode.

• In case you forget your password, please consult with your nearest Panasonic Service Center.
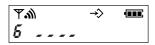
Program Button ⟶⟩

Call Restriction

You can restrict desired handset(s)/base unit from dialling selected telephone numbers. For selected handset(s)/base unit, you can assign up to 6 call restriction numbers (up to 8 digits). After storing, all telephone numbers beginning with the restricted digits cannot be dialled out. For example, if "00" is assigned as the call restriction number, international calls cannot be made. The factory preset is OFF.

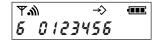## Setting the Call Restricted Handset(s)/ Base Unit and Call Restriction Number(s)

1 Press →⟫ (Program), then [INT'] (Intercom).

📶	→⟩	▮▮▮

2 Press [6].

📶	→⟩	▮▮▮
6 _ _ _ _		

3 Enter the base unit password (p. 47).

- The current registered handset number(s)/base unit are displayed.
- The current restricted handset number(s)/base unit are flashing.

📶	→⟩	▮▮▮
6 0123456		

- The base unit number is displayed as 0.

4 Press the handset number(s)/base unit you want to restrict using the dialling buttons.

- The selected handset number(s)/base unit flash(es).
- If you misdial, press the number(s) again.

Ex. Handsets 2 and 6 are restricted.

📶	→⟩	▮▮▮
6 0123456		

5 Press →⟫ (Program).

📶	→⟩	▮▮▮
6 1-		

6 Enter a call restriction number up to 8 digits.

• If you misdial, press [●/●] (Cancel) and enter the number again.

Ex. 0190 is entered.

```
Y.ıll          →̲     ▥
6  1-        0190
```
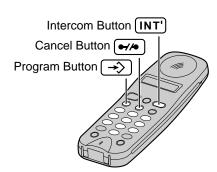
7 Press [→̲] (Program).

• The call restriction number is stored.
• A confirmation tone sounds.
• To set the next call restriction number, enter the number, then press [→̲] (Program).

```
Y.ıll          →̲     ▥
6  2-
```

8 When finished, press [→̲] (Program).

• A confirmation tone sounds.

Intercom Button [INT']
Cancel Button [●/●]
Program Button [→̲]

Cancelling the call restricted handset(s)/base unit

Follow steps 1 to 3. In step 4, enter the desired handset number(s)/base unit.

• The cancelled handset number(s)/base unit stop(s) flashing.
When finished, press [→̲] (Program) until you return to the stand-by mode.

Cancelling the call restriction number(s)

Follow steps 1 to 4. In step 5, press [→̲] (Program) until the call restriction number you want to cancel is displayed.
Then press [●/●] (Cancel).

• The call restriction number is cleared.
When finished, press [→̲] (Program) until you return to the stand-by mode.

Direct Call

You can store a number in the direct call memory. This feature allows you to make a call easily by pressing [📞] (Talk).
You can store a direct call number in each handset, if more than one handset is registered (p. 76).

Setting the Direct Call Mode

After storing the direct call number, the unit will automatically switch to the direct call mode.

1 Press [→] (Program).

2 Press [4], then [2].
  • The current stored number is displayed.
  • If the current stored number is the same as the number you want to set, skip to step 4.

3 Enter the phone number up to 24 digits.
  • If you misdial, press [↩/↪] (Cancel) and enter the number again.

4 When finished, press [→] (Program).
  • A confirmation tone sounds.
  • " 👤 " is displayed.
  • The unit will automatically switch to the direct call mode.

Dialling a Stored Number

Make sure that " 👤 " is displayed, then press 📞 (Talk).

• The number stored in the direct call memory is dialled automatically.

```
Ƴ    📞👤           ▭▭▭▭
        987654321
```

Cancelling the direct call mode

1 Press →〉 (Program).

```
Ƴ        👤    →〉    ▭▭▭▭
```

2 Press **4**, then **2**.

• The current stored number is displayed.

```
Ƴ        👤    →〉    ▭▭▭▭
42-987654321
```

3 When finished, press →〉 (Program).
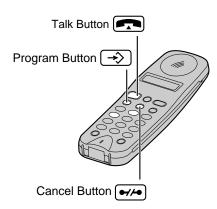
• A confirmation tone sounds.
• " 👤 " goes out.
• The direct call mode is cancelled.

```
Ƴ                      ▭▭▭▭
-1-
```

Talk Button 📞

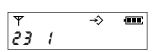Program Button →〉

Cancel Button •⁄•

Setting the Ringer Pattern

On the handset

You can program the handset ringer pattern (6 patterns) according to your needs. The factory preset is pattern 1.
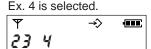
1 Press $\boxed{\rightarrow\!\!\!}$ (Program).

2 Press $\boxed{2}$, then $\boxed{3}$.
• The current handset ringer pattern is displayed and rings.

Ex. 4 is selected.

3 Press a button $\boxed{1}$ to $\boxed{6}$ to select the ringer pattern.
• The selected ringer pattern is displayed and rings.

4 When finished, press $\boxed{\rightarrow\!\!\!}$ (Program).
• A confirmation tone sounds.

On the base unit
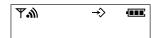
You can program the base unit ringer pattern (6 patterns) according to your needs. The factory preset is pattern 1.

1 Press $\boxed{\rightarrow\!\!\!}$ (Program), then $\boxed{INT'}$ (Intercom).
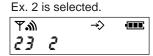
2 Press $\boxed{2}$, then $\boxed{3}$.
• The current base unit ringer pattern is displayed.

Ex. 2 is selected.

3 Press a button $\boxed{1}$ to $\boxed{6}$ to select the ringer pattern.
• The selected ringer pattern is displayed and rings.

4 When finished, press $\boxed{\rightarrow\!\!\!}$ (Program).
• A confirmation tone sounds.

Setting the Key Tones

On the handset

You can select whether the handset keys sound tones or not (key tone, confirmation tone, error tone). The factory preset is 1 (ON).

1 Press $\boxed{\rightarrow}$ (Program).

```
Y                    ⤳    ▭▭▭▭
```

2 Press $\boxed{2}$, then $\boxed{1}$.
   • The current setting is displayed.

```
Y                    ⤳    ▭▭▭▭
2 1 1
```

3 To select OFF, press $\boxed{0}$.
   OR
   To select ON, press $\boxed{1}$.

   • The setting is displayed.

Ex. OFF is selected.

```
Y                    ⤳    ▭▭▭▭
2 1 0
```

4 When finished, press $\boxed{\rightarrow}$ (Program).
   • If ON is selected, a confirmation tone sounds.

On the base unit

You can select whether the base unit keys sound tones or not.
The factory preset is 1 (ON).

1 Press $\boxed{\rightarrow}$ (Program), then $\boxed{\text{INT'}}$ (Intercom).

```
Y⋙                   ⤳    ▭▭▭▭
```

2 Press $\boxed{2}$, then $\boxed{1}$.
   • The current setting is displayed.

```
Y⋙                   ⤳    ▭▭▭▭
2 1 1
```

3 To select OFF, press $\boxed{0}$.
   OR
   To select ON, press $\boxed{1}$.

   • The setting is displayed.

Ex. OFF is selected.

```
Y⋙                   ⤳    ▭▭▭▭
2 1 0
```

4 When finished, press $\boxed{\rightarrow}$ (Program).
   • If ON is selected, a confirmation tone sounds.
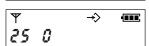
Chapter 3 Cordless Telephone (Advanced Operations)
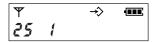
Setting the Range Warning Alarm

You can select whether the handset sounds a range warning alarm or not.
The factory preset is 0 (OFF).

1   Press $\rightarrow$ (Program).

2   Press **2**, then **5**.

3   To select ON, press **1**.
    OR
    To select OFF, press **0**.

    • The setting is displayed.

Ex. ON is selected.

4   When finished, press $\rightarrow$ (Program).

    • A confirmation tone sounds.

Setting the Battery Low Alarm

You can select whether the handset sounds a battery low alarm or not.
The factory preset is 1 (ON).
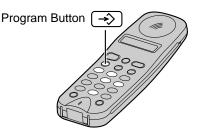
1   Press $\rightarrow$ (Program).

2   Press **2**, then **6**.

3   To select OFF, press **0**.
    OR
    To select ON, press **1**.

    • The setting is displayed.

Ex. OFF is selected.

Program Button $\rightarrow$

4   When finished, press $\rightarrow$ (Program).

    • A confirmation tone sounds.

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Clearing the Settings in Memory ➡

On the handset
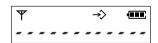
This function enables the handset to clear the following settings at one time.
All settings will return to the default settings (shown in brackets).

– Accessing the base unit	0 (Automatic base unit access)
– Handset key tones	1 (ON)
– Handset ringer volume	(3)
– Handset ringer pattern	(1)
– Call waiting tone	1 (ON)
– Range warning alarm	0 (OFF)
– Battery low alarm	1 (ON)
– Stand-by mode display	1 (Base unit number)
– Talk mode display	1 (Length of the call)
– Call prohibition	0 (OFF)
– Direct call mode	(OFF)
– Direct call number	(Clear)
– Handset password	(0000)
– Handset Receiver volume	(2)
– Redial memory	(All clear)

1 Press ⟶⟩ (Program).

2 Press **0**.

3 Enter the handset password (p. 46).

4 When finished, press ⟶⟩ (Program).
   • A confirmation tone sounds.

Program Button ⟶⟩

Chapter 3 *Cordless Telephone (Advanced Operations)*

# ➡ **Clearing the Settings in Memory**

On the base unit

This function enables the base unit to clear the following settings at one time.
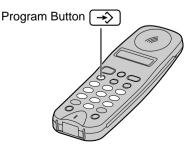All settings will return to the default settings (shown in brackets).

– Bell selection   1 (All handsets)
– Base unit key tones   1 (ON)
– Base unit ringer volume   (2)
– Base unit ringer pattern   (1)
– Dialling mode   1 (TONE)
– Pause timing   1 (3 seconds)
– Call restricted handset(s)   (All clear)
– Call restriction number(s)   (All clear)
– Base unit password   (0000)
– Time Break Recall/EARTH mode   1 (Time Break Recall)
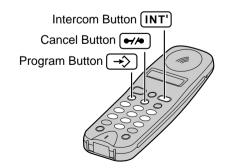
1 Press $\boxed{\rightarrow\!\!\!>}$ (Program), then $\boxed{\textbf{INT'}}$ (Intercom).

Y⚏	→>	▭▭▭

2 Press $\boxed{0}$.

Y⚏	→>	▭▭▭
0 _ _ _ _		

3 Enter the base unit password (p. 47).

Y⚏	→>	▭▭▭
_ _ _ _ _ _ _ _ _ _		

4 When finished, press $\boxed{\rightarrow\!\!\!>}$ (Program).

• A confirmation tone sounds.

Intercom Button $\boxed{\textbf{INT'}}$
Cancel Button $\boxed{•/•}$
Program Button $\boxed{\rightarrow\!\!\!>}$

Automatic Answering Operation

When the unit answers a call, a greeting message is played and the caller's message is recorded.

- The total recording time (including the greeting message) is **about 15 minutes**. If messages are recorded in noisy rooms, the memory time may be shortened up to 3 minutes.
- A maximum of 64 messages (including the greeting message) can be recorded.

Setting the Unit to Answer Calls

Press **ANSWER ON** to turn on the answering system.

- The indicator lights and "Answer set" is heard.
- The unit will announce the remaining recording time if it is less than 5 minutes.
- If you hear "Memory is full." and the indicator flashes rapidly, erase some or all of the messages (p. 62).

ANSWER ON Button and Indicator

- If you do not want the unit to answer calls, press **ANSWER ON** to turn the answering system off. The indicator light goes out and "Answer off" is heard.
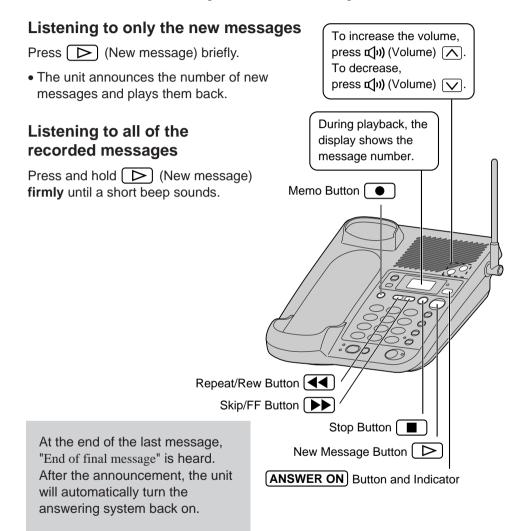- You can also turn on the answering system remotely using any other phone (p. 69).

Monitoring incoming calls

While a call is being recorded, you can monitor it through the speaker.
To answer the call with the speakerphone, press [🕀] (Digital speakerphone) (KX-TCD970E-B only).
For the handset, press [📞] (Talk). The unit stops recording.

Listening to Messages

You can see the total number of recorded messages on the base unit display.
If the ANSWER ON indicator light flashes, new messages have been recorded.

Listening to only the new messages

Press ▷ (New message) briefly.

• The unit announces the number of new
  messages and plays them back.

Listening to all of the recorded messages

Press and hold ▷ (New message)
firmly until a short beep sounds.

To increase the volume,
press 🔊 (Volume) ∧.
To decrease,
press 🔊 (Volume) ∨.

During playback, the
display shows the
message number.

Memo Button ●

Repeat/Rew Button ◀◀
Skip/FF Button ▶▶

Stop Button ■

At the end of the last message,
"End of final message" is heard.
After the announcement, the unit
will automatically turn the
answering system back on.

New Message Button ▷

ANSWER ON Button and Indicator

Flash Memory Message Backup

Messages are stored indefinitely on a "flash memory" IC chip – even if a
power failure occurs. All of the messages are saved until you erase them.

During playback

To **repeat/rewind** the message	**To repeat from the beginning of the message** Press ◀◀ (Repeat/Rew) briefly. • If you press within 5 seconds of playback, the previous message will be played. **To rewind part of the message** Press and hold ◀◀ (Repeat/Rew) until you reach the desired place. • At the beginning of the message, 3 beeps will sound.
To **skip/cue** the message	**To skip to the next message** Press ▶▶ (Skip/FF) briefly. **To cue to part of the message** Press and hold ▶▶ (Skip/FF) until you reach the desired place. • At the end of the message, 3 beeps will sound.
To **stop** the operation	Press ■ (Stop). • To resume playback, press ▷ (New message). To turn on the answering system, press **ANSWER**.

Recording a Memo Message

You may record a personal message in memory.

1 Press ● (Memo).

• A long beep sounds.

2 After the beep, talk clearly about 20 cm away from the MIC.

• The base unit display shows the elapsed recording time.

3 When finished, press ■ (Stop).

• A beep sounds.

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Erasing Messages

The unit will announce the remaining recording time after playback, if it is less than 5 minutes. New messages cannot be recorded when:

– "Memory is full." is heard.
– The number of messages displayed on the base unit flashes rapidly.
– The ANSWER ON indicator light flashes rapidly.

Erase some or all of the messages. We recommend you erase unnecessary messages after each playback.
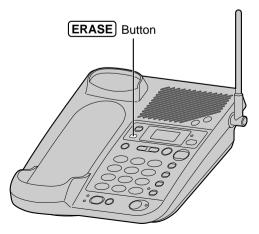
Erasing a specific message

Press **ERASE** while the message you want to erase is being played.

• The unit erases the message.
• A short beep will sound and the unit continues to play the next message.

Erasing all of the messages

All of the recorded messages except the greeting message can be erased at one time.

1 Press **ERASE** .

• "Press ERASE button again to erase all messages."
  is heard.

2 Within 5 seconds, press **ERASE** again.

• A long beep and "No message" are heard.
• The base unit display shows "0".

ERASE Button

Remote Operation from a Touch Tone Phone ➡

You can operate the answering system from any touch tone phone.
To operate the unit remotely, you must store your remote code first by using the handset near the base unit (p. 64).
A synthesized voice menu will guide you on how to operate the unit (p. 66).

• To skip the voice menu and operate
  the unit directly, see page 68.

Summary of the remote operation

Call your unit from a touch tone phone.

⬇

During or after the greeting message playback, enter your remote code (p. 64).
• The number of new messages is heard.

⬇

After 3 seconds, the voice menu will start (p. 66).
Follow the menu or enter the direct commands (p. 68).

⬇

To end the remote operation, hang up.
• The messages are saved.
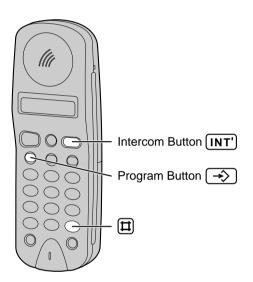

Setting the Remote Code

The remote code prevents unauthorized people from accessing your unit and listening to your messages. Choose any **3 digit number (000–999).**
The remote code is not preset.

Be sure that the power is ON (p. 17) and you are in the stand-by mode.

1 Press →> (Program), then [INT']
   (Intercom).

2 Press 🗆.
   • " ▭ " is displayed on the handset.
   • "P" is displayed on the base unit.

3 Press 1.

4 Enter a remote code by using a
   3 digit number (000–999).

   • The entered number is displayed
     on the base unit.

Intercom Button [INT']

Program Button →>

🗆

5 When finished, press →> (Program).

   • A confirmation tone sounds.
   • To change the remote code,
     repeat from step 1.

• If 6 beeps sound in step 5, you did not enter a 3 digit number. Restart from
  step 1 to program a 3 digit number.
• If a remote code is not programmed, you cannot use the unit remotely.
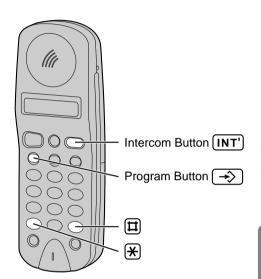
64

Cancelling the remote operation

You can prohibit anyone from accessing to your unit and listening to your recorded messages remotely. Erase the remote code by the following programming. After this programming, you cannot use the remote operation functions (p. 66–69).
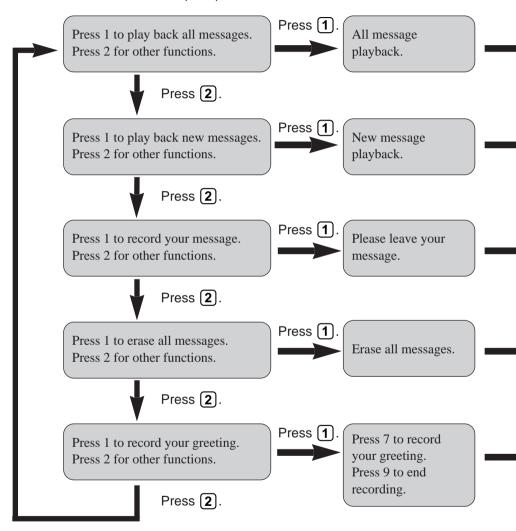
1. Press $\boxed{\rightarrow}$ (Program), then $\boxed{\text{INT'}}$ (Intercom).

2. Press $\boxed{\Box}$.
   • " ▭ " is displayed on the handset.
   • "₱" is displayed on the base unit.

3. Press $\boxed{1}$.

4. Press $\boxed{*}$.
   • The display goes out.

Intercom Button $\boxed{\text{INT'}}$

Program Button $\boxed{\rightarrow}$

$\boxed{\Box}$

$\boxed{*}$

5. When finished, press $\boxed{\rightarrow}$ (Program).

• To cancel this program, reprogram a new remote code (p. 64).

Answering System

Chapter 4

Voice Menu

The shaded boxes are voice prompts.

Press 1 to play back all messages.
Press 2 for other functions.
→ Press **1**. → All message playback.

Press **2**.

Press 1 to play back new messages.
Press 2 for other functions.
→ Press **1**. → New message playback.

Press **2**.

Press 1 to record your message.
Press 2 for other functions.
→ Press **1**. → Please leave your message.

Press **2**.

Press 1 to erase all messages.
Press 2 for other functions.
→ Press **1**. → Erase all messages.

Press **2**.

Press 1 to record your greeting.
Press 2 for other functions.
→ Press **1**. → Press 7 to record your greeting. Press 9 to end recording.

Press **2**.

All Message Playback
All of the recorded messages are played back. At the end of the last message, "End of final message" and the remaining recording time are announced.

New Message Playback
Only new messages are played back.

Recording a Memo Message
You can leave a personal message.
1. Talk after you hear "Please leave your message."
2. When you finish recording, hang up.

Erase All Messages
All of the recorded messages (except the greeting message) are erased.

Recording a Greeting Message
You can re-record your greeting message.

1. Press **7**.
   You hear a voice prompt followed by a long beep.
2. Talk after the long beep.
3. When you finish recording, press **9**.
4. Your greeting will be played back for confirmation.

- 3 seconds after playback, the voice menu will start from the beginning.
- If you hear "Memory is full." after playback, erase some or all of the messages (p. 68).

Direct Remote Operation

Once you have entered the remote code, you can also control your unit by direct commands instead of using the voice menu. To end the remote operation, hang up anytime.

Direct commands

NEW MESSAGE PLAYBACK	4	• Only new messages are played back.
ALL MESSAGE PLAYBACK	5	• All of the messages are played back.
REPEAT (During playback)	1	• The current message is repeated.
SKIP (During playback)	2	• The current message is skipped. The next message is played.
STOP (During playback)	9	• Playback is stopped temporarily. • To resume playback, press **9** again within 15 seconds, or the voice menu will start.
GREETING MESSAGE RECORDING	7 ↓ RECORD ↓ 9	• A long beep sounds. • Talk immediately after the long beep. • The recording is stopped. • The recorded message is played.
ERASING A SPECIFIC MESSAGE (During playback)	✳ 4	• The current message is erased. • A short beep will sound and the next message is played.
ERASING ALL MESSAGES	✳ 5	• All of the recorded messages are erased. • A long beep and "No message" are heard.

ANSWERING SYSTEM OFF	**0**	• "Answer off" is heard. • The unit hangs up and will not answer calls until turned on again.
DISCONNECT	✱ ♯	• The call is terminated and messages will be saved.

To continue the remote operation

When you are listening to your messages remotely, the unit will stop playback every 2 minutes and 40 seconds and you will hear two beeps.
To continue playback, press **9** within 10 seconds after the beeps. If you do not press **9** within that time, the unit will hang up. All of the messages will be saved.

Turning on the answering system

1. Call your unit and wait for 20 rings.

2. Press the remote code within 10 seconds after the long beep.

   • The unit will answer and the greeting message will be played.
   • The answering system will turn on. Hang up or enter the remote code for other options.
   • When turning on the answering system using a rotary or pulse service telephone, you cannot enter a remote code for other options.
   • If your remote code is not stored, you cannot turn on the answering system remotely.

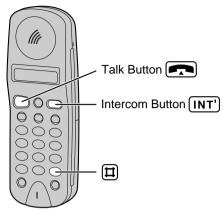## Skipping the greeting message

After calling your unit, press ✱ during the greeting message playback.

• The unit skips the rest of the greeting and callers can start recording their message after the long beep.

Remote Operation with the Handset

You can operate your answering system
with the handset.
The announcement and recorded
messages can only be heard from the
handset.

Talk Button 📞

Intercom Button (INT')

🔲

Summary of the remote operation

Press (INT') (Intercom), then 🔲.
- The number of new messages is heard.
- " 📼 " is displayed on the handset.

⬇

Enter the desired command buttons (p. 71).
- If you do not enter any command, the voice menu will start.*
- After the voice menu, all message playback will start.

⬇

To end the remote operation, press 📞 (Talk).
- The messages are saved.

- If you hear "Memory is full." after playback, erase some or all of the messages
  (p. 71).

*Voice menu

If commands are not entered after you press (INT') (Intercom) and 🔲, the unit
will start the following voice menu:

"Press 4 to playback new messages. Press 5 to playback all messages."

- You can enter direct commands even when the voice menu has started.

70

Direct commands

|		
NEW MESSAGE PLAYBACK	4	• Only new messages are played back.
ALL MESSAGE PLAYBACK	5	• All of the messages are played back.
REPEAT (During playback)	1	• The current message is repeated.
SKIP (During playback)	2	• The current message is skipped. The next message is played.
STOP (During playback)	9	• Playback is stopped temporarily. • To resume playback, press **9** again within 15 seconds, or the voice menu (p. 70) will start.
ERASING A SPECIFIC MESSAGE (During playback)	✳ 4	• The current message is erased. • A short beep will sound and the next message is played.
ERASING ALL MESSAGES	✳ 5	• All of the recorded messages are erased. • A long beep and "No message" are heard.
ANSWERING SYSTEM OFF	0	• The answering system is turned off and will not answer calls until turned on again.
ANSWERING SYSTEM ON	8	• The answering system is turned on and is in the stand-by mode for receiving calls.

Answering System

Chapter 4

71
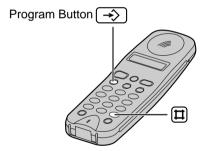
Recording your telephone conversation with the handset

You can record your telephone conversation.

1. During a conversation with the handset, press $\boxed{\rightarrow}$ (Program), then $\boxed{\amalg}$.

   • "▭▭" is displayed on the handset.

2. Continue your conversation.

3. When finished, press $\boxed{\rightarrow}$ (Program), then $\boxed{\amalg}$.

• When you record your 2-way telephone conversation, you should inform the other party that the conversation is being recorded.
• A beep sounds every 15 seconds while recording your conversation.
• You cannot record a conversation with the base unit.
• If "▭▭" goes out in step 2, memory may be full.

Program Button $\boxed{\rightarrow}$

$\boxed{\amalg}$

Remote Operation Card ➡

OPERATION WITH THE HANDSET

Press `INT'` (Intercom), then `口`.

↓

Enter the desired direct commands as below.

- **To playback new messages,** press `4`.
- **To playback all messages,** press `5`.
- **To repeat a message,** press `1`.
- **To skip a message**, press `2`. (For more functions, see the other side of this card.)

↓

To end the remote operation, press `📞` (Talk).

OPERATION FROM A TOUCH TONE PHONE

Call your unit.

↓

Enter your remote code ———— .

↓

Press the desired direct commands as shown here.
OR
Wait for 3 seconds and the voice menu will start. Follow the instructions. (See the other side.)

↓

To end the remote operation, hang up.

No.	Direct Command
1	Repeat the message
2	Skip the message
4	New message playback
5	All message playback
7	Recording your greeting
9	Stop
0	Answer off
✳	Greeting message skip
✳4	Erasing a specific message
✳5	Erasing all messages
✳#	Disconnect

- When you press a button, press firmly.

➡ **Remote Operation Card**

Press **INT'** (Intercom), then 📠.

↓

- **To erase a specific message,** press ✳ **4** during the message playback.
- **To erase all messages,** press ✳ **5**.
- **To turn off the answering system,** press **0**.
- **To turn on the answering system,** press **8**.

↓

To end the remote operation, press 📞 (Talk).

- **To stop playback temporarily:** Press **9** during playback. To resume playback, press **9** again within 15 seconds.

- **To record a telephone conversation:** Press ⟶ (Program), then 📠. When finished, press ⟶ (Program), then 📠 again.

• **To use the voice menu:**

Call your unit.

↓

Enter your remote code _____ .

↓

After 3 seconds, the voice menu will start.

↓

Press **1** to use the voice feature. OR Press **2** to proceed with other functions.

↓

To end the remote operation, hang up.

- **To turn on the answering system:** Call your unit and wait for 20 rings. Then enter your remote code. The unit will answer, then hang up.

- **To skip the greeting message:** After calling your unit, press ✳ during the greeting message playback. Callers can start recording their message after the long beep.

- **To continue playback:** Press **9** within 10 seconds after the beeps.

74

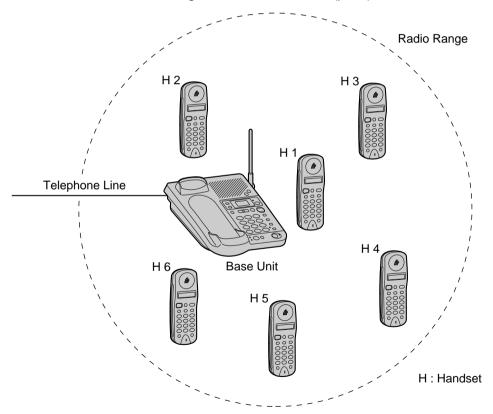# For Optional Multi-Handset Users ➡

Operating More than One Handset

You can register and operate up to 6 handsets in the base unit. Operating more than one handset allows you to have an internal call while simultaneously conducting an external phone call with another handset.

Example: Handset 1 is engaged in an internal call with handset 3.
Handset 2 is engaged in an external call.

The diagram below shows the layout of a base unit with 6 handsets. Each additional handset must be registered in the base unit (p. 76).

- The optional handset model number is KX-A332CE-B. The functions of an optional handset are the same as the KX-TCD970E-B/KX-TCD960E-B handset.
- An optional charger, KX-A327E-B, is available at your Panasonic dealer.
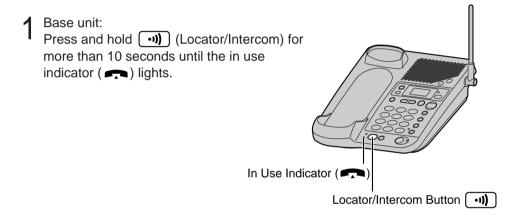
Registering a Handset in the Base Unit

Each optional handset that you purchase must be registered in the base unit before use.

- Charge the optional handset battery for about 3 hours before initial use.
- Be sure that the power is ON (p. 17) and you are in the stand-by mode.
- Register the handset number within 1 minute. If it is not registered within 1 minute, press ⟜⟶ (Program) on the handset to cancel the programming mode. Then start from step 1 again.

1 Base unit:
   Press and hold ⟨ •)) ⟩ (Locator/Intercom) for more than 10 seconds until the in use indicator (☎) lights.

In Use Indicator (☎)

Locator/Intercom Button ⟨ •)) ⟩

2 Handset:
   Press ⟜⟶ (Program).

   - " ⟶⟩ " is displayed.

3 Press ⟨7⟩, then ⟨1⟩.

   - The base unit numbers where the handset has not been registered are displayed.

```
71 1234
```

76

4 Press the desired base unit number using buttons ① to ④ .

• " Y " flashes.
• While the handset is searching for the base unit, "–" flashes across the display.
• The number is assigned as the base unit number for the handset.

Ex. Base unit 1 is assigned.

＼Ｙ＼	→〉	▯▯▯
-		

5 Enter the base unit password using a 4 digit number.

• The factory preset of the base unit password is 0000. If you have changed the base unit password (p. 47), enter the new password.

＼Ｙ＼	→〉	▯▯▯
71 ＼-＼		

＼Ｙ＼	→〉	▯▯▯
71 ----		

6 When finished, press →〉 (Program).

• A confirmation tone sounds.
• " Y " stops flashing.
• " →〉 " goes out and the handset is registered in the base unit.
• The base unit number is displayed.
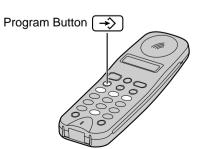• The in use indicator ( ) on the base unit goes out.

＼Ｙ＼	→〉	▯▯▯
-		

Ex. The handset is registered in base unit 1.

Ｙ		▯▯▯
- 1-		

Program Button →〉

Multi-Unit User Operations

Chapter 5

77
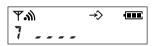
Cancelling a Handset

Each handset can cancel itself or another handset.

1 Press ⟶⟩ (Program), then [INT'] (Intercom).

Ɏ᭸ᴸ   ⟶⟩   ▱▱▱

2 Press [7].

Ɏ᭸ᴸ   ⟶⟩   ▱▱▱
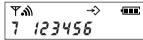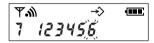7 - - - -

3 Enter the base unit password (p. 47).

• The current registered handset number(s) is/are displayed.
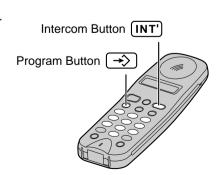
Ex. Handsets 1, 2, 3, 4, 5 and 6 are registered.

Ɏ᭸ᴸ   ⟶⟩   ▱▱▱
7 123456

4 Press the handset number(s) you want to cancel using the dialling buttons.

• The selected handset number(s) flash(es).
• If you misdial, press the number(s) again.

Ex. Handset 6 is cancelled.

Ɏ᭸ᴸ   ⟶⟩   ▱▱▱
7 123456

5 When finished, press ⟶⟩ (Program).

• A confirmation tone sounds.
• The handset number(s) is/are cancelled.

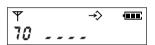Intercom Button [INT']

Program Button ⟶⟩

Cancelling a base unit

If the handset is in another radio area and/or the power is OFF when "Cancelling a Handset" on page 78, the previous base unit number still remains in the cancelled handset. Therefore, you need to cancel the base unit registered in **the cancelled handset** by following the steps below.
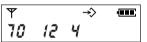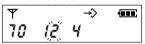
1   Press [→] (Program).

2   Press [7], then [0].

3   Enter the handset password (p. 46).
    • The current registered base unit number(s) is/are displayed.
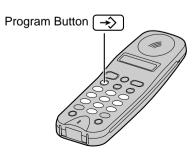
Ex. The handset is registered in base units 1, 2 and 4.

4   Press the base unit number you want to cancel using the dialling buttons.

    • The selected base unit number flashes.
    • If you misdial, press the number again.

Ex. Base unit 2 is cancelled.

5   When finished, press [→] (Program).

    • A confirmation tone sounds.
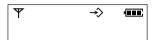   • The base unit number is cancelled.

Program Button [→]

Multi-Unit User Operations

Selecting the Stand-by Mode Display

You can select displaying either the base unit number, handset number or no display while in the stand-by mode. The factory preset is 1 (base unit number).

1 Press ⟶⟩ (Program).

```
Ұ                    ⟶⟩    ▭▭▭
```

2 Press ③, then ①.

• The current setting is displayed.

```
Ұ                    ⟶⟩    ▭▭▭
3 1   1
```
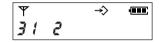
3 To select "the handset number", press ②.
OR
To select "no display", press ⓪.
OR
To select "the base unit number", press ①.
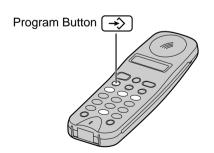
Ex. The handset number is selected.

```
Ұ                    ⟶⟩    ▭▭▭
3 1   2
```

4 When finished, press ⟶⟩ (Program).

• A confirmation tone sounds.
• The handset number is displayed.

```
Ұ                          ▭▭▭
[ 3 ]
```

Program Button ⟶⟩

80

Bell Selection

There are four types of bell selection. The factory preset is 1 (all handsets).

All handsets (p. 85)
When a call is received, all of the handsets will ring at the same time.

Cyclic (p. 82)
You can make the handsets ring in their handset number order.
(Handset 1, then Handset 2, etc.)
When "Cyclic" is selected, you can select the ring count (1 to 6) for the other handsets. The factory preset is 3 rings.

Selecting the handsets (p. 83)
You can select which handset(s) you want to ring.

Selecting the first handset (p. 84)
One handset will ring first, then all of the handsets will ring if the first handset does not answer the call.
You can select which handset will ring first and the ring count (1 to 6) until all of the handsets ring.

Multi-Unit User Operations

Chapter 5

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Selecting "Cyclic"

You can make the handsets ring in their handset number order (Handset 1, then Handset 2, etc.).
When "Cyclic" is selected, you can select the ring count (1 to 6) for the other handsets. The factory preset is 3 rings.

1 Press $\boxed{\rightarrow}$ (Program), then $\boxed{\text{INT'}}$ (Intercom).

2 Press $\boxed{1}$.

3 Enter the base unit password (p. 47).
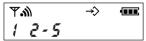
 • The current setting is displayed.

 $\boxed{1}$: All handsets

 $\boxed{2}$: Cyclic

 $\boxed{3}$: Selecting the handset(s)

 $\boxed{4}$: Selecting the first handset

Ex. "All handsets" is selected.

4 Press $\boxed{2}$.

 • The "Cyclic–current ring count" is displayed.
 • If you don't want to change the current "Ring count", go to step 6.

Ex. "Cyclic–3 rings" is selected.

5 Press a dialling button $\boxed{1}$ to $\boxed{6}$ to select the ring count.

Ex. "5 rings" is selected.

6 When finished, press $\boxed{\rightarrow}$ (Program).

 • A confirmation tone sounds.

Intercom Button $\boxed{\text{INT'}}$

Program Button $\boxed{\rightarrow}$

Selecting the Handsets

You can select which handset(s) you want to ring.

1 Press [→] (Program), then [INT'] (Intercom).

▽ɑ)))   →   ▭

2 Press [1].

▽ɑ)))   →   ▭
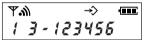1 - - - -

3 Enter the base unit password (p. 47).

• The current setting is displayed.

Ex. "All handsets" is
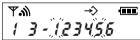selected.

▽ɑ)))   →   ▭
1 1

4 Press [3].

• The current registered handset number(s)
is/are displayed.
• The current selected handset number(s) is/are
flashing.

Ex. Handsets 1, 2, 3, 4, 5
and 6 are registered.

▽ɑ)))   →   ▭
1 3 - 123456

5 Press the handset number(s) you want to ring
using the dialling buttons.

• The selected handset number(s) flash(es).
• If you misdial, press the number(s) again.
• You must enter a handset number.
If you do not enter a handset number,
[→] (Program) will not be accepted
in step 6.

Ex. Handsets 1 and 5 will
ring.

▽ɑ)))   →   ▭
1 3 - 123456

6 When finished, press [→] (Program).

• A confirmation tone sounds.
• To change the handset(s) you want
to ring, repeat from step 1.

Intercom Button [INT']

Program Button [→]

Multi-Unit User Operations

Chapter 5

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Selecting the First Handset

One handset will ring first, then all of the handsets will ring if the first handset does not answer the call. You can select which handset will ring first and the ring count (1 to 6) until all of the handsets ring.

1 Press ⟶⟩ (Program), then [INT'] (Intercom).

```
Ψ๓))              ⟶⟩      ▮▮▮
```

2 Press [1].

```
Ψ๓))              ⟶⟩      ▮▮▮
1 _ _ _ _
```

3 Enter the base unit password (p. 47).

• The current setting is displayed.

Ex. "All handsets" is selected.

```
Ψ๓))              ⟶⟩      ▮▮▮
1 1
```
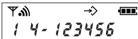
4 Press [4].

• The current registered handset number(s) is/are displayed.

• The current selected handset number(s) is/are flashing.
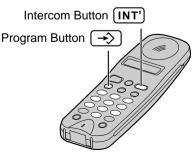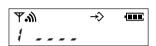
Ex. Handsets 1, 2, 3, 4, 5 and 6 are registered.

```
Ψ๓))              ⟶⟩      ▮▮▮
1 4-123456
```

5 Press the handset number you want to ring using the dialling buttons.

• The selected handset number flashes.

• If you misdial, press the number again.

• You must enter a handset number. If you do not enter a handset number, ⟶⟩ (Program) will not be accepted in step 6.

Ex. Handset 1 will ring.

```
Ψ๓))              ⟶⟩      ▮▮▮
1 4-123456
```

6 When finished, press ⟶⟩ (Program).

• The handset number is stored.

• The current ring count is displayed.

```
Ψ๓))              ⟶⟩      ▮▮▮
1 4-123456-3
```

7 Press a dialling button, [1] to [6] to select the ring count.

Ex. "5 rings" is selected.

```
 Y.ıll        →⟩     ▪▪▪▪
 1 4-123456-5
```

8 When finished, press [→⟩] (Program).

• A confirmation tone sounds.
• To change the handset you want to ring, repeat from step 1.

Selecting All Handsets
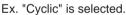
When a call is received, all of the handsets will ring at the same time.

1 Press [→⟩] (Program), then [INT'] (Intercom).

```
 Y.ıll        →⟩     ▪▪▪▪

```

2 Press [1].

```
 Y.ıll        →⟩     ▪▪▪▪
 1 - - - -
```

3 Enter the base unit password (p. 47).

• The current setting is displayed.

Ex. "Cyclic" is selected.

```
 Y.ıll        →⟩     ▪▪▪▪
 1 2
```

4 Press [1].

```
 Y.ıll        →⟩     ▪▪▪▪
 1 1
```

5 When finished, press [→⟩] (Program).

• A confirmation tone sounds.

Intercom Button [INT']

Program Button [→⟩]

Multi-Unit User Operations

Chapter 5

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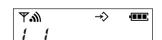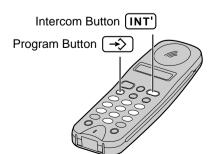
Intercom between the Handset(s) and the Base Unit
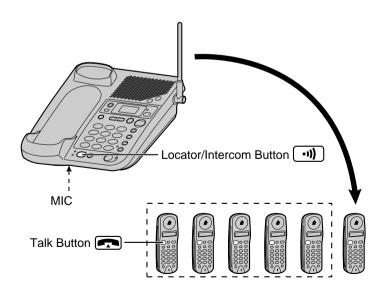
A 2-way intercom is available between one of the handsets and base unit when another handset is not having an outside call.

The base unit user can page the handset users **individually or at one time.**

Paging all the handsets from the base unit (all paging)

The base unit user can talk with the handset user who answered the page first.

1. Base unit: Press ⟨•))⟩ (Locator/Intercom).

   • All the handsets ring for 1 minute.
   • To stop paging, press ⟨•))⟩ (Locator/Intercom).

2. One of the handsets: Press ⟨📞⟩ (Talk) to answer.

3. Base unit: Talk into the MIC.

4. The handset who answered first or base unit:
   To end the intercom, press ⟨📞⟩ (Talk) or ⟨•))⟩ (Locator/Intercom).

Locator/Intercom Button ⟨•))⟩

MIC

Talk Button ⟨📞⟩

Paging a handset from the base unit (individual paging)

The base unit user can page one of the handsets by selecting the handset number. You can confirm the handset number by performing "Selecting the Stand-by Mode Display" (p. 80).

1. Base unit: Press **SELECT** to display the handset number which you want to page, then press ⌐•))⌐ (Locator/Intercom).

   • The handset rings for 1 minute.
   • To stop paging, press ⌐•))⌐ (Locator/Intercom).

MIC | **SELECT** Button

Locator/Intercom Button ⌐•))⌐

Talk Button ⌐☎⌐

2. Handset : Press ⌐☎⌐ (Talk) to answer.

3. Base unit: Talk into the MIC.

4. Handset or base unit:
   To end the intercom, press ⌐☎⌐ (Talk) or ⌐•))⌐ (Locator/Intercom).

Transferring a Call Using the Intercom (KX-TCD970E-B only)

The intercom can be used during a call. This feature enables you to transfer a call between a handset and the base unit.

From the base unit to a handset

1. Base unit: During a call, press **SELECT** to display the handset number which you want to page, then press ⌐•))⌐ (Locator/Intercom).

   • The call is put on hold.
   • If the handset user does not answer, press ⌐•))⌐ (Locator/Intercom).

2. Handset: Press ⌐☎⌐ (Talk) to answer the page.

3. Transferring a call:
   Base unit: Press ⌐•))⌐ (Locator/Intercom).

   • The transfer is completed. The handset can answer the call.
     OR
   Ending the intercom:
   Base unit: Press ⌐⌁⌐ (Digital speakerphone).

   • The base unit returns to the call.

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Intercom between Handsets
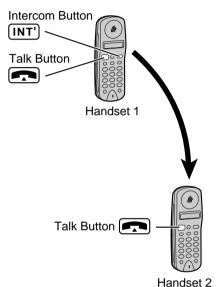
A 2-way intercom is available between the handsets. (Ex. Handset 1 is paging Handset 2.)

1 Handset 1:
Press [INT'] (Intercom) and then press the desired handset number using the dialling buttons.

• " 📶 " is displayed and the paged handset rings.

$$\underset{[\ 1\ ]\text{-}[\ 2\ ]}{\overline{\Psi\text{📶}\qquad\qquad\textbf{IIII}}}$$

Intercom Button
[INT']

Talk Button
[📞]

Handset 1

2 Handset 2:
When the unit rings, press [📞] (Talk) to answer the page.

• The intercom duration is displayed.

$$\underset{00\text{-}00\text{-}01}{\overline{\Psi\text{📶}\qquad\qquad\textbf{IIII}}}$$

Talk Button [📞]

Handset 2

3 Handsets 1 and 2:
To end the intercom, press [📞] (Talk).

Transferring a Call from One Handset to Another

The intercom can be used during a call. This feature enables you to transfer a call between the handsets. (Ex. Handset 1 is transferring a call to Handset 2.)

Transferring a call using the intercom

1   Handset 1:
    During a call, press [INT'] (Intercom).
    Then press the desired handset number using the dialling buttons.

    • The call is put on hold.
    • You will hear an internal ring back tone until the other handset answers.
    • If there is no answer, press [INT'] (Intercom) to return to the call.

2   Handset 2:
    When the unit rings, press [📞] (Talk) to answer the page.

3   Transferring a call:
    Handset 1:
    Press [📞] (Talk).

    • The transfer is completed. The handset 2 can answer the call.

    OR

    Ending the intercom:
    Handset 1:
    Press [INT'] (Intercom).

    • Handset 1 returns to the call.

Transferring a call without an intercom

This feature enables you to transfer the call to another handset without waiting for the handset to answer the page. (Ex. Handset 1 is transferring a call to Handset 2.)

1 Handset 1:
During a call, press [INT'] (Intercom), then press the desired handset number using the dialling buttons. Press ⟨📞⟩ (Talk) to transfer the call.

   • The call is put on hold.

2 Handset 2:
When the unit rings, press ⟨📞⟩ (Talk) to answer the call.

   • The transfer is completed.

• If the paged handset does not answer within 30 seconds, a ring tone sounds at the paging handset. The paging handset can return to the call by pressing ⟨📞⟩ (Talk).

Conference

During a conversation with the handset, you can make an intercom call to another handset and then combine the calls together to establish a conference call.

1 Handset 1:
During a call, press [INT'] (Intercom). Then press the desired handset number using the dialling buttons.

   • The call is put on hold.
   • If there is no answer, press [INT'] (Intercom) to return to the call.

2 Handset 2:
When the unit rings, press ⟨📞⟩ (Talk) to answer the page.

3 Handset 1:
Press [3] to establish a conference call.

4 Handset 1 or 2:
Press ⟨📞⟩ (Talk) to end the conference call.

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Setting the Call Waiting Tone

If an incoming call has been received during an intercom between handsets, a call waiting tone sounds. You can select whether this tone will sound or not. The factory preset is 1 (ON).

1   Press $\boxed{\rightarrow}$ (Program).

$\boxed{\text{Ƴ} \qquad\qquad \rightarrow\rangle \quad \text{▥}}$
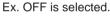
2   Press $\boxed{2}$, then $\boxed{4}$.

   • The current setting is displayed.
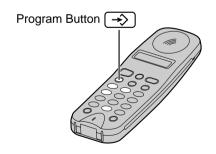
$\boxed{\begin{array}{l} \text{Ƴ} \qquad\qquad \rightarrow\rangle \quad \text{▥} \\ 24 \ 1 \end{array}}$

3   To select OFF, press $\boxed{0}$.
   OR
   To select ON, press $\boxed{1}$.

   • The setting is displayed.

Ex. OFF is selected.

$\boxed{\begin{array}{l} \text{Ƴ} \qquad\qquad \rightarrow\rangle \quad \text{▥} \\ 24 \ 0 \end{array}}$

4   When finished, press $\boxed{\rightarrow}$ (Program).

   • A confirmation tone sounds.

Program Button $\boxed{\rightarrow}$
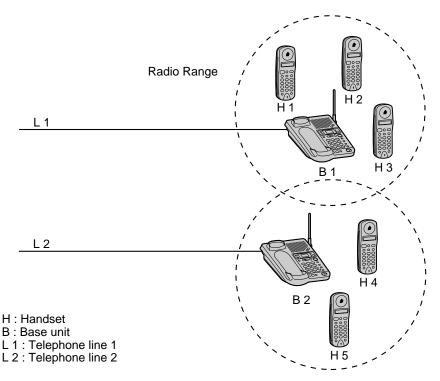
Operating More than One Base Unit

You can register and operate your handset (KX-A332CE-B) at up to
4 KX-TCD970E-B/KX-TCD960E-B base units.
Each base unit provides a radio cell where you can make and receive calls.
However, you cannot transfer calls between cells.

Operation example:

The example below shows two base units connected to 2 lines.

Radio Range

H 1   H 2

L 1

B 1   H 3

L 2

H 4

B 2

H 5

H : Handset
B : Base unit
L 1 : Telephone line 1
L 2 : Telephone line 2
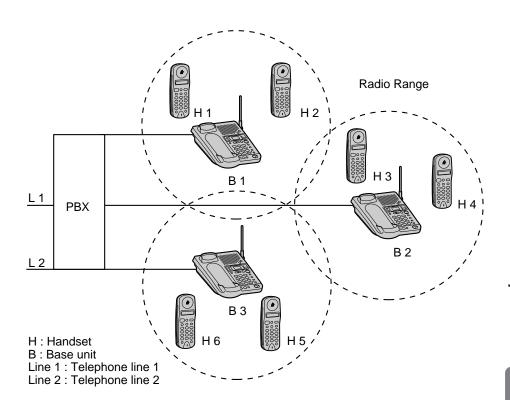
You can receive incoming calls at any handset located within either base unit's
radio cell. You can make outgoing calls from any handset within the entire radio
area using the same telephone line. For example, you can use a handset in
different radio areas, such as at home or the office.
Each handset must be registered at both base units (p. 96). You can register up
to 6 handsets at each KX-TCD970E-B/KX-TCD960E-B base unit.

Connecting several base units to a PBX

The example below shows a telephone system with 2 lines shared by 6 handsets which are registered in all 3 base units (p. 96).

Radio Range

H : Handset
B : Base unit
Line 1 : Telephone line 1
Line 2 : Telephone line 2
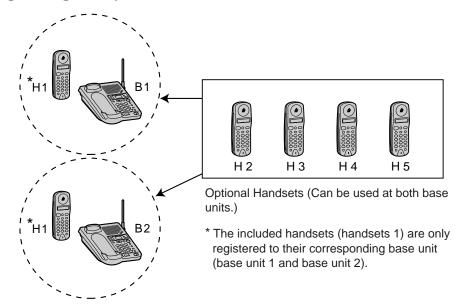
You can make outgoing calls via phone line L1 or L2 within the radio area of all 3 base units.
Incoming calls can be received at all handsets (with a PBX set up accordingly) regardless of where they are currently located within the radio area covered by the base units.

Organizing multiple handsets at more than one base unit

Optional Handsets (Can be used at both base units.)

* The included handsets (handsets 1) are only registered to their corresponding base unit (base unit 1 and base unit 2).
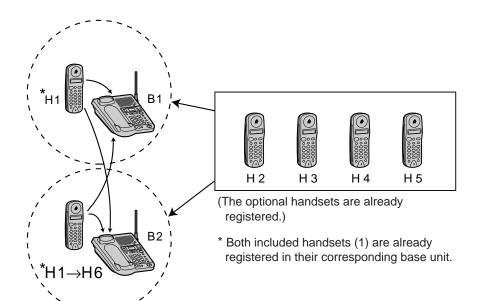
Example:
4 optional KX-A332CE-B handsets are added to 2 KX-TCD970E-B/
KX-TCD960E-B base units.
To use the same additional handset number in both base unit areas, follow the steps below to register the handsets.

1. Determine the base unit number.
   • Define which base unit is number 1 and number 2.
2. Determine the optional handset numbers.
   • Define which optional handsets are numbers 2–5.
3. Register all of the optional handsets (2–5) in base unit 1 starting in order with handset number 2. (See page 96.)
4. Register all of the optional handsets (2–5) in base unit 2 in the same order as registered in base unit 1.

(The optional handsets are already registered.)

* Both included handsets (1) are already registered in their corresponding base unit.

In order to use both of the included handsets in base units 1 and 2, follow the steps below to register the handsets.
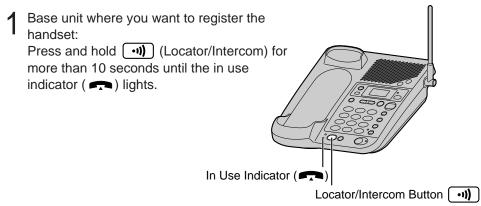
1. Cancel the included handset for base unit number 2. (See page 78.)
2. Register base unit 1's included handset in base unit number 2.
   That handset will also be registered as handset number 1 for base unit number 2.
3. Register the previous cancelled handset in both base units. That handset will be registered as handset number 6 for both base units.

Registering at More than One Base Unit

You can register and operate your handset (KX-A332CE-B) at up to
4 KX-TCD970E-B/KX-TCD960E-B base units. If the handset is used with
another base unit, it must be registered in that base unit before use.

- Be sure that the power is ON (p. 17) and you are in the stand-by mode.
- Register the handset number within 1 minute. If it is not registered within
  1 minute, press →> (Program) on the handset to cancel the programming
  mode. Then start from step 1 again.

1 Base unit where you want to register the
   handset:
   Press and hold ·)) (Locator/Intercom) for
   more than 10 seconds until the in use
   indicator (📞) lights.

In Use Indicator (📞)

Locator/Intercom Button ·))
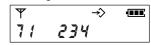
2 Handset:
   Press →> (Program).

3 Press 7, then 1.

   • The base unit number(s) where the handset
     has not been registered is/are displayed.

   Ex. Base units 2, 3 and 4
       have not been
       registered.
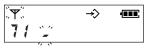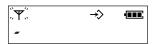
       71   234

4 Press the desired base unit number using
buttons [1] to [4].

- " Y " flashes.
- While the handset is searching for the base
  unit, "–" flashes across the display.
- The number is assigned as the base unit
  number for the handset.

Ex. Base unit 2 is
selected.

```
Y               →>    ▇▇▇
-
```

5 Enter the base unit password using a 4-digit
number.

- The factory preset of the base unit password
  is 0000. If you have changed the base unit
  password (p. 49), enter the new password.

```
Y               →>    ▇▇▇
7 1  ---
```

```
Y               →>    ▇▇▇
7 1  - - - -
```

6 When finished, press [→>] (Program).

- A confirmation tone sounds.
- " Y " stops flashing.
- The handset is registered in the base unit.
- The base unit number is displayed.
- The in use indicator (☎) on the base unit
  goes out.

```
Y               →>    ▇▇▇
-
```

Ex. The handset is
registered in base
unit 2.

```
Y                     ▇▇▇
- 2 -
```

Multi-Unit User Operations

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Program Button [→>]

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Notes on using the handset(s) at more than one base unit

• The base unit number which the handset is currently in contact with can be displayed in the stand-by mode (p. 80).
  Calls (both incoming and outgoing) can be conducted only via the displayed base unit (even if the radio areas overlap with neighbouring base units).
• Intercom calls can be conducted within the radio area of the current base unit, but not with units in neighbouring radio areas.
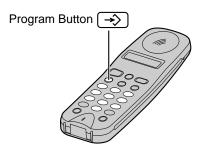• If the handset moves to another radio area, it loses contact with the previous base unit and a radio link with the new base unit is set up automatically. ("Automatic base unit access"–see p. 99).
  Calls in progress are cancelled when the unit moves to another radio area.
• You can deactivate "Automatic base unit access" at a base unit. By selecting "Specified base unit access" (p. 99), you can choose the base unit where you want the handset to operate. This is important in the overlap area between two radio areas. Here you can choose the base unit/telephone line from which you can make/receive outgoing calls.

Accessing the Base Unit

Automatic base unit access
The handset automatically selects a registered base unit.
• When the handset moves to another base unit radio area, it loses contact with the previous base unit and automatically accesses the new base unit radio area.
• If the handset is in the overlap area between several base unit radio areas, the handset will access the base unit in the order of the base unit numbers.

Specified base unit access
You can only select one of the registered base units (1 to 4).

The factory preset is 0 (automatic base unit access). To change the mode, program as follows.

1 Press →⟩ (Program).

⟨display: antenna icon, →⟩, battery icon⟩
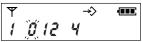
2 Press **1**.
- The current registered base unit number(s) is/are displayed.
- The current accessed base unit number flashes.
  Specified base unit access
  (The registered base unit number): **1** to **4**
  Automatic base unit access: **0**
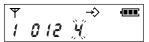
Ex. "Automatic base unit access" is selected.

⟨display: antenna icon, →⟩, battery icon⟩
1 0 12 4

3 Press the desired base unit access using buttons **0** to **4**.
- If you misdial, press the number again.

Ex. Base unit 4 is selected.

⟨display: antenna icon, →⟩, battery icon⟩
1 0 12 4

4 When finished, press →⟩ (Program).
- A confirmation tone sounds.
- The selected base unit number is displayed.
- To change the setting, repeat from step 1.

⟨display: antenna icon, battery icon⟩
- 4 -

Program Button →⟩
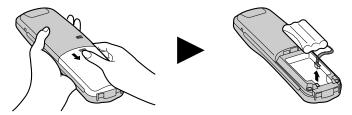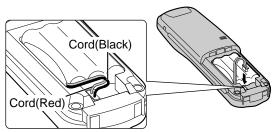
Replacing the Battery

If " ▭ " flashes after a few telephone calls even when the handset battery has been fully charged, it is time to change the battery with a new one. **Remember to charge the new battery after battery replacement.**
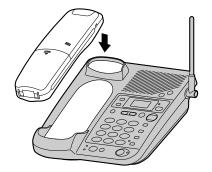
1 Turn the power OFF to prevent memory loss (p. 17).
Remove the handset cover, then remove the battery.

2 Replace the battery with a new one as shown.

• When you finish, close the handset cover and turn the power ON (p. 17).

Cord(Black)

Cord(Red)

3 Be sure to charge the new battery for 3 hours.

• If you do not charge the new battery, " ▭ " will not be displayed correctly.

• Discard a defective battery as soon as possible. A defective battery may leak into the unit.
• Please use only a Panasonic HHR-P101E (KX-TCA10CE) battery.
• If the rechargeable battery is not inserted correctly, the handset will not work.
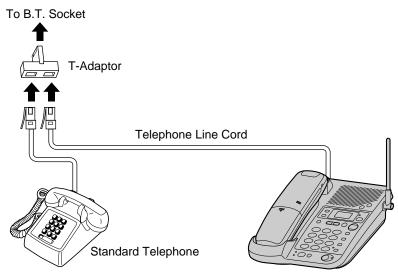
Caution:

To reduce the risk of fire or injury to persons, read and follow these instructions.

1. Use only the battery specified.

2. Do not dispose of the battery in a fire. It may explode. Check with local waste management codes for special disposal instructions.

3. Do not open or mutilate the battery. Released electrolyte is corrosive and may cause burns or injury to the eyes or skin. The electrolyte may be toxic if swallowed.

4. Exercise care in handling the battery in order not to short the battery to conductive materials such as rings, bracelets, and keys. The battery and/or conductor may overheat and cause burns.

5. Charge the battery provided with or identified for use with this product only in accordance with the instructions and limitations specified in this manual.

- See "Important Notice Concerning the Correct Use and Charging of a Ni-MH Battery" on p. 111.

Adding Another Phone
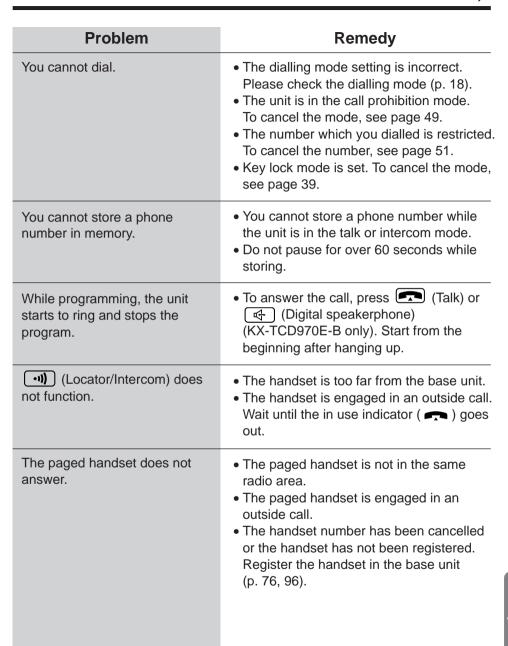
This unit will not function during a power failure. To connect a standard telephone on the same line, use a T-adaptor.

To B.T. Socket

T-Adaptor

Telephone Line Cord

Standard Telephone

Before Requesting Help

Cordless Telephone

Problem	Remedy
An alarm tone sounds when you press [▬] (Talk).	• You are too far from the base unit. Move closer and try again. • Plug in the AC adaptor. • Raise the base unit antenna.
A busy tone sounds when you press [▬] (Talk).	• If more than one handset is registered, another handset or the base unit speakerphone is in use.
" Y " flashes during a conversation and the call is disconnected.	• The handset is out of range. Move closer to the base unit and make the call again. • Make sure that the AC adaptor is connected.
Static, sound cuts in/out, fades. Interference from other electrical units.	• Locate the handset and base unit away from other electrical appliances (p. 5). • Move closer to the base unit. • Raise the base unit antenna.
The handset does not operate or ring.	• The power is OFF. Turn the power ON (p. 17).
The base unit does not ring.	• The base unit ringer volume is set to 1 (low). Select 2 (medium) or 3 (high) (p. 33).

Problem	Remedy
You cannot dial.	• The dialling mode setting is incorrect. Please check the dialling mode (p. 18). • The unit is in the call prohibition mode. To cancel the mode, see page 49. • The number which you dialled is restricted. To cancel the number, see page 51. • Key lock mode is set. To cancel the mode, see page 39.
You cannot store a phone number in memory.	• You cannot store a phone number while the unit is in the talk or intercom mode. • Do not pause for over 60 seconds while storing.
While programming, the unit starts to ring and stops the program.	• To answer the call, press 🔊 (Talk) or 📢 (Digital speakerphone) (KX-TCD970E-B only). Start from the beginning after hanging up.
📢 (Locator/Intercom) does not function.	• The handset is too far from the base unit. • The handset is engaged in an outside call. Wait until the in use indicator (📞) goes out.
The paged handset does not answer.	• The paged handset is not in the same radio area. • The paged handset is engaged in an outside call. • The handset number has been cancelled or the handset has not been registered. Register the handset in the base unit (p. 76, 96).

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➡ **Before Requesting Help**

Problem	Remedy
You cannot program items, such as the dialling mode.	• Programming is not available while the unit is in the talk or intercom mode.
While using the intercom between handsets or the base unit, a call waiting tone sounds.	• A call has been received. To answer, press ⬛ (Talk) twice or ⬛ (Locator/Intercom) and ⬛ (Digital speakerphone) (KX-TCD970E-B only).
⬛ (Redial/Pause) does not function properly.	• It will redial the last number dialled if pressed at the outset of a call (p. 27). If another number has been dialled first, it will operate as a pause button (p. 41).
The unit misdials when connected to a PBX.	• Check the pause function (p. 41).
You cannot register the handset number.	• 6 handsets are already registered in the base unit. • 4 base units are already registered in the handset. • A wrong base unit password was entered. Enter the correct password. • There is interference from other electrical units. Set the handset and base unit away from them. • You must register the handset number within 1 minute or programming will be cancelled.

Answering System

Problem	Remedy
The answering system is on, but incoming messages are not recorded.	• The recording time is set to "greeting only". Select "1 minute" or "unlimited" (p. 24). • Memory is full. Erase some or all of the messages (p. 62).
The number of messages on the base unit display and the ANSWER ON indicator light flashes rapidly, and no new messages are recorded.	• Memory is full. Erase some or all of the messages (p. 62). If the number of messages and the ANSWER ON indicator light still flashes rapidly, erase your greeting message and record a shorter greeting (p. 20, 21).
You cannot operate the answering system at the base unit.	• The handset user is operating the answering system. Wait until the in use indicator (☎) goes out.
You cannot operate the answering system from a touch tone phone.	• Be sure to enter the correct remote code. • The answering system may not respond if the tones are too short to activate the unit. Press each button firmly. • The answering system is off. Turn it on (p. 69).
You cannot operate the answering system with the handset.	• Someone is operating the answering system. • You are too far from the base unit. Move closer to the base unit. • The unit is recording a message. To answer the call, press ☎ (Talk).

Useful Information

Chapter 6

Problem	Remedy
While recording a greeting message, the unit starts to ring and stops recording.	• To answer the call, press ⬚ (Digital speakerphone) (KX-TCD970E-B only), or press ⬚ (Talk). The recording stops halfway. Start from the beginning after hanging up.
During playback, the unit starts to ring and stops playback.	• To answer the call, press ⬚ (Digital speakerphone) (KX-TCD970E-B only), or press ⬚ (Talk). To resume playback, press ⬚ (New message) after hanging up.
You cannot record your telephone conversation with the handset.	• The conversation cannot be recorded when the answering system is in use (recording a message, playing back a message, etc.).

General

Problem	Remedy
The unit does not work.	• Check the settings (p. 14–19). • Charge the battery fully (p. 16). • Clean the charge contacts and charge again (p. 17). • The handset has been cancelled or the handset has not been registered. Register the handset number (p. 76, 96). • Unplug the AC adaptor and turn the power OFF to reset. Reconnect the AC adaptor, turn the power ON. Then try again. • Re-install the handset battery and try again.

Problem	Remedy
You cannot program items, such as the time/day adjustment (p. 24).	• Programming is not available while the unit is in the talk or speakerphone mode (KX-TCD970E-B only). • Move closer to the base unit.
" 📶 " flashes or beeps tones sound every 15 seconds.	• Charge the battery fully (p. 16).
You charged the battery fully, but " 📶 " flashes.	• Clean the charge contacts and charge again (p. 17). • Install a new battery (p. 100, 109).
The charge indicator (🔋) light never goes out while charging.	• This is normal.
The unit does not work during a power failure.	• This unit will not work during a power failure. We recommend you connect a standard telephone and use it during a power failure.

Useful Information

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Safety Instructions

Take special care to follow the safety suggestions listed below.

Safety
1) Power Source: The unit should be connected to a power supply only of the type described in the operating instructions or as marked on the unit.
2) Non use Periods: When the unit is not used, turn the power off. When left unused for a long period of time, the base unit should be unplugged from the household AC outlet.

Installations
Environment
1) Water and Moisture: Do not use this unit near water—for example, near a bathtub, washbowl, sink, etc. Damp basements should also be avoided.
2) Heat: The unit should be kept away from heat sources such as radiators, cookers, etc. It also should not be placed in rooms where the temperature is less than 5°C or greater than 40°C.

Placement
1) Stacking: Do not place heavy objects on top of this unit.
2) Foreign Material: Care should be taken so that objects do not fall onto and liquids are not spilled into the unit. Do not subject this unit to excessive smoke, dust, mechanical vibration, or shock.
3) Surface: Place the unit on a flat surface.

For best performance
1) If noise prevents the conversation from being understood at the handset, move toward the base unit to reduce the noise.
2) The handset should be used at the 3 (high) volume setting when the other party sounds quiet.
3) The handset should be fully recharged on the base unit when " ▭ " on the display flashes.
4) The maximum calling distance may be shortened when the unit is used in the following places: Near obstacles such as hills, tunnels, underground, near metal objects such as wire fences, etc.

WARNING:
TO PREVENT THE RISK OF FIRE OR ELECTRICAL SHOCK, DO NOT EXPOSE THIS PRODUCT TO RAIN OR ANY TYPE OF MOISTURE.

Important Notice Concerning the Correct Use and Charging of a Ni-MH Battery

Batteries, due to their construction, undergo some wear and tear. The life of a battery also depends on correct maintenance. Charging and discharging are the most important factors. You should take notice of the following to maintain battery life for as long as possible.

A Ni-MH battery has the "memory effect". When the handset is used several times for less than 15 minutes and then immediately recharged, the capacity of the battery will be reduced to only 15 minutes. Therefore, you should discharge the battery completely, i.e. use it in the handset until " ▭▬ " on the display starts flashing. Then recharge it as described in the manual. After the memory effect has occurred, it is possible to achieve almost full capacity from the Ni-MH battery by charging and discharging several times one after another.

A Ni-MH battery can also self-discharge depending on the ambient temperature. At temperatures under 0°C, it will be at its lowest. At high humidity and high temperatures, it will be at its highest. Also long-term storage will lead to self-discharge. An exhausted Ni-MH battery should not be disposed of normally. It contains toxic heavy metal Hydride and therefore should be recycled.

Dear purchaser,

You have acquired a KX-TCD970E-B/KX-TCD960E-B, which is a product made in regard with the European Standards for Cordless Telephones (DECT). DECT technology is characterised by high-security protection against interception as well as high-quality digital transmission.
This telephone was designed for a wide range of applications.
For example, this telephone can be used within a network of base units and handsets, constituting a telephone system which:

• operates up to 6 handsets from one base unit
• allows intercom between 2 handsets
• allows a handset to operate from 4 base units, expanding the communication radio area.

This telephone may be used for:

• operating for up to 6 handsets
• operating from for up to 4 base units
• connecting the base unit to a PBX.

Term Definitions

DECT

The abbreviation DECT means "Digital Enhanced Cordless Telecommunications".

Advantages of DECT

Excellent voice quality: Through sampling of digital signals DECT-units obtain nearly noiseless transmission.
High grade tapping security: Based on digital transmission DECT-conversations are well protected against unauthorised monitoring.
Multi-Handset operation: There is no cable installation necessary when several handsets are operating at the base units.
Interlink: Intercom conversations can be held free of charge between the registered handsets.
Functions like a PBX: (Like a PBX-system, functions can be performed during an external call) E.g. handle one internal call or transferring an outside call to another handset.
Multi-Base station operation: More than one handset can be registered to several base units, e.g. for private and office applications.

Equipment Manufacturer's Code (EMC)

For definite identification, this unit is prepared with an EM Code which can be applied to future operators in mobile networks.

GUARANTEE
CONDITIONS OF GUARANTEE

This guarantee is in addition to and does not in any way affect any statutory or other rights of consumer purchasers. If within the applicable guarantee period, the appliance proves to be defective by reason of faulty design, workmanship or materials, we undertake subject to the following conditions to have the defective appliance (or any part or parts there of) repaired or replaced free of charge.

1. The appliance shall have been purchased and used solely within the UK and in accordance with standard operating instructions and the technical and/or Safety Standards required in the UK.
2. The appliance should be returned together with this guarantee and proof of date of purchase promptly on being found defective at the purchaser's risk and expense to the authorised dealer from whom the appliance was purchased or to the nearest authorised dealer. All enquires must be through such dealers.
3. This guarantee shall not apply to damage caused through fire, accident, lightning, misuse, wear and tear, neglect, incorrect adjustment or repair, to damage caused through installation, adaption, modification or use in an improper manner or inconsistent with the technical and/or safety standards required in the country where this appliance is used, or to damage occurred during transit to or from the purchaser.
4. If at any time during the guarantee period any part or parts of the appliance are replaced with a part or parts not supplied or approved by us or of an objective quality safe and suitable for the appliance, or the appliance has been dismantled or repaired by any person not authorised by us, we shall have the right to terminate this guarantee in whole or in part immediately without further notice.
5. The purchaser's sole and exclusive remedy under this guarantee against us is for the repair or replacement of the appliance or any defective part or parts and no other remedy, including, but not limited to, incidental or consequential damage or loss of whatsoever nature shall be available to the purchaser.
6. This guarantee shall not apply to cassette tapes, batteries and any other items of limited natural life.
7. Our decision on all matters relating to complaints shall be final. Any appliance or defective part which has been replaced shall become our property.
8. The guarantee period applicable to this product shall be 12 months.

Please keep these Operating Instructions with your receipt.

Panasonic Business Systems U.K.

Receipt No.   Date of Purchase

Model No. **KX-TCD970E-B/KX-TCD960E-B**   Serial No.

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MODEL No. KX-TCD970E-B

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MODEL No. KX-TCD960E-B

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73/23/EEC
89/336/EEC
92/31/EEC
93/68/EEC

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